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Distr. RESTRICTED

ISED/R.13 16 March 1994

UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

ORIGINAL: ENGLISH

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REGIONAL AFRICA HIDES AND SKINS, LEATHER AND LEATHER PRODUCTS IMPROVEMENT SCHEME

US/URT/88/100

Terminal report*

Prepared for the Government of the Republic of Tanzania by the United Nations Industrial Development Organization

Based on the work of S. W. Massay and E. J. Muyinga, national experts

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* This document has not been edited.

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EXPLANATORY NOTES

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FAO	-	Food and Agriculture Organization
IDF	-	Industrial Development Fund
NALRP	-	National Agriculture Livestock Rehabilitation Programme
TLAI	-	Tanzania Leather Associated Industries
UNIDO	-	United Nations Industrial Development Organization
TSH	-	Tanzanian Shillings

ABSTRACT

The National Hides, Skins, Leather and Leather Products Improvement Scheme, US/URT/88/100 was supported by the Government of Italy through a special purpose contribution to the IDF. The project started operations in July 1989 and is scheduled to be operationally completed at the end of December 1993.

The main objective of the project was to contribute to the improvement of the country's economy, create new employment opportunities, improve export performance, increase the incomes of primary producers, and provide the international leather and leather products market with additional semi-processed materials and finished products.

In general the project achieved its objectives within the prevailing economic and infrastructural conditions in the country. The progress achieved by the current project should be a firm basis for continued activities in the improvement of hides and skins and the leather industry in Tanzania. The following is a summary of major recommendations and conclusions:

1. National policies (existing and recommended amendments) need to be implemented seriously in order to achieve meaningful hides and skins improvement programmes.

2. Extension activities consolidated by the project in the target region of Shinyanga should be maintained.

3. There is a glaring need for creating a database at the Ministry of Agriculture to provide accurate statistics necessary for evaluation and monitoring of hides and skins collection.

4. Privatization of the old industries in the leather subsector should be completed faster in order to maximize the contribution of the leather industry to the national economic recovery.

5. Strategies for technical training in the leather industry should be formulated because training needs will increase significantly when industries are rehabilitated or new ones come up.

6. Establishment of the Leather Association of lanzania is a positive step as it will serve as a focal point for the future development of hides and skins and leather industries in the country.

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INTRODUCTION

A. Project background

The Third Consultation on Leather and Leather Products Industry, held in Innsbruck, Austria, in April 1984, recommended among other things that an integrated programme approach at the national level, with appropriate variations to meet the specific needs of individual developing countries, could provide a relevant framework for international cooperation for the development of the raw hides and skins and the leather products industry. It was also recommended that within the objectives of the Industrial Development Decade for Africa and the situation of the leather and leather products industry in the region, the Industrial Development Board should consider the convening of a regional consultation in Africa preceded by a meeting of a group of experts that would identify areas of international cooperation.

Consequently UNIDO started the project "Integrated Development Programme of the Leather and Leather Products Industry in Africa" (XA/RAF/85/610) and the terminal report of this project formed the main background paper for the Regional Meeting on Leather and Leather Products Industry in Africa, held in Alexandria, Egypt, in January 1987, which was followed by the FAO Intergovernmental Sub-Group Meeting on Hides and Skins in Rome, Italy.

Tanzania was among the countries invited to these meetings and gave UNIDO the approval for the implementation of the project and to seek the required funds. It was also agreed that eight East African countries and eight West African countries should be grouped under two regional umbrella projects.

The "Preparatory Assistance for a Regional Hides and Skins, Leather and Leather Products Improvement Scheme" (UC/RAF/87/069) was started in 1987 in order to assess the existing situation, compile pertinent data for the programme and prepare work plans. This culminated in the launching of the regional project US/RAF/88/100 for East Africa and the associated eight national projects in Ethiopia, Kenya, Malawi, Somalia, Sudan, Tanzania, Zambia and Zimbabwe, and the Regional Tannery Rehabilitation Scheme, US/RAF/88/102.

The regional umbrella project's headquarters were located at the Kenya Industrial Research and Development Institute (KIRDI) in Nairobi, Kenya. From this regional office the Chief Technical Adviser supervised and coordinated the activities of the international experts, subcontractor teams and the national experts based in each of the eight countries.

Conditions which led the Government to seek assistance included:

1. Enormous waste of raw hides and skins, of which there is potentially great availability in the country, due to poor flaying and preservation methods, lack of proper tools and facilities etc.

2. Underutilization of production capacities in the tanneries and footwear units caused by lack of spare parts and equipment, managerial constraints etc.

3. Low productivity.

4. Lack of trained personnel at all levels.

When the above constraints are removed, Tanzania could become a major supplier of semi-processed leather to the export market and a producer of finished leather and leather products for the home market as well as for export.

B. Official arrangements

The official request for assistance was submitted by the Ministry of Industry and Trade by letter ref. MIT-C/U.10/17 dated 7 October 1988. The request was approved by UNIDO in March 1989.

The cooperating agencies in the project were the Ministry of Industry and Trade and the Ministry of Agriculture.

The project became operational with the appointment of the two national experts in July 1989 and is scheduled to be operationally completed in December 1993.

C. Contributions

A total contribution of US\$ 684,102 (including 13 per cent support costs) was given by the Government of Italy through a special purpose contribution to the IDF of UNIDO. The Government of Tanzania provided as inputs TSH 1,038,000 through the Ministry of Industry and Trade and TSH 6,434,00 through the Ministry of Agriculture.

D. Objectives of the project

1. The <u>development objective</u> of the project was to contribute to the improvement of the country's and the region's economy, create new employment opportunities, improve export performance, increase the income of primary producers, and provide the

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international leather and leather products market with additional semi-processed raw materials and finished products.

2. The <u>immediate objectives</u> were:

(a) to establish a national pilot scheme and to demonstrate, in practical terms, the process of hides and skins improvement from butchering and flaying to conservation, grading and collection;

(b) to act as catalyst to national authorities to introduce incentives for improved quality performance;

(c) to rehabilitate existing infrastructures and selected leather tanning and processing plants by increasing their efficiency and capacity utilization, upgrading technical standards, operational methods and skills, product quality and marketing performance, as well as knowledge of those attached to these industries at various levels, starting from primary producers.

Generally, the above objectives were partially achieved since in some areas there satisfactory achievements were made, while in others results were not as expected. Major factors contributing to this partial achievement of objectives were:

- Transportation problems in the target area of Shinyanga, covering a vast area of approximately 51 km² without a tarred road, caused great difficulties in the operation: of the project. This problem was aggravated by the theft of the project vehicle Toyota Hilux Double Cabin (203T x 525) which was never recovered.
- Low prices paid for raw hide: and skins (in 1990 and 1991) was a great disincentive to primary producers, thus hides and skins improvement work made no significant impact. The low prices resulted from the decline of the world market for raw hides and skins.
- Delay in the restructuring/privatization of parastatal tanneries and shoe factories was a major constraint in delivering assistance to the industry. While it was initially anticipated that the restructuring exercise would be completed within 1990, this was not the case at the time of report writing. Managerial and financial constraints had a negative impact where inputs were already supplied, e.g. spare parts delivered to Morogoro Tannery did not improve production because of the lack of funds for purchasing raw materials. Furthermore, the drum purchased for Morogoro Tannery and later transferred to Moshi Tannery remained uninstalled.¹

In October 1993 the drum was transferred back to the newly privatized Morogoro

E. Training

1. Workshops and seminars

Formal training arrangements as contained in the project document were in the form of workshops and seminars organized on the regional basis and on the national level seminars were held on raw hides and skins improvement. The following workshops and seminars took place within the project period:

(a) National seminar on raw hides and skins improvement for flayers and extension officers, in Shinyanga, October 1991, for two weeks.

(b) National workshop on raw hides and skins improvement for senior hides and skins improvement officers, tanners, merchants and senior ministry officials, in Arusha, May 1992, for one week.

(c) Regional seminar on raw hides and skins improvement, in Bulawayo, Zimbabwe, November 1990. Two participants from Tanzania attended.

(d) Machinery maintenance seminar for tannery engineers, in Addis Ababa, Ethiopia, October 1990, for one week. Three participants from Tanzania attended.

(e) Leather tanning and finishing seminar, in Nairobi, Kenya, May 1991. for two weeks. Six participants from Tanzania attended.

(f) Regional workshop on leather goods manufacturing, at Morogoro Leather Goods Factory, from 16 March to 8 April 1992. Five technical personnel from Tanzania took part.

(g) Regional seminar on pollution control and tannery effluents, in Nairobi, Kenya, June 1992, for 4 days. Five Tanzanian candidates were among the participants.

2. <u>Other training</u>

On-the-job training was provided by the leather goods expert (Mr. D. Tracy) during his first assignment in Tanzania during March-April 1991. when he conducted a training course on leather goods manufacturing technique. The expert carried out a similar training with more emphasis on product quality, costing and small leather goods making during August-November 1992.

In 1991/92, one technician from Shah Industries was sponsored to attend a oneyear training course in leather goods technology in the United Kingdom.

Tannery.

3. <u>Results of training activities</u>

Training undertaken in the target area contributed positively towards hides and skins improvement as more awareness of good care of hides was created. A substantial reduction in flay cuts on hides and skins was achieved.

In leather goods manufacturing the training resulted in a marked improvement in the quality of products and better organization of work as well as better working environment. However, the increase in productivity was not as significant as expected. This could probably be attributed to the shortage of leather in the domestic market as well as lack of incentives to workers in the production.

F. Equipment

All ordered equipment was delivered (Annex 1, Property Control Record, refers). The private enterprises received their equipment under the condition that they would repay the equivalent of its value in local currency to a "revolving fund", which has been established under the control of the Leather Association of Tanzania to finance further hides and skins improvement activities. The title of the equipment has not been formally transferred to the Government of Tanzania or to the Leather Association of Tanzania pending the settlement of pay-back arrangements with the recipient companies. The equipment met the requirements and specifications and the performance is very satisfactory.

G. Subcontracting

There were no subcontracts directly awarded by the Tanzanian project. A subcontract was awarded to Ewbank Preece Limited of the United Kingdom under the regional project US/RAF/88/100 in the area of hides and skins improvement.

RECOMMENDATIONS

1. The existing national policies as well as policy adjustments on hides and skins improvement recommended by the project should be implemented. Successful implementation of this would involve the Government, hides and skins merchants, tanneries and the Leather Association.

2. The Ministry of Agriculture should provide regular statistics on hides and skins collection. These statistics are necessary for monitoring and evaluation.

3. Extension activities established in the target areas should be maintained by provision of support services. The Government and the project should work jointly to ensure continuous results of inputs already provided in this area.

4. Tanneries should provide information regularly on quality of raw hides and skins to the Government and the Leather Association in order to facilitate continuous evaluation and implementation of necessary measures for maintaining good quality.

5. Restructuring/privatization of industries in the leather subsector should be completed as soon as possible. This exercise is important for the revival of the industry and hence enabling it to make a maximum contribution to national economic recovery programmes. The Government should give priority to this exercise.

6. After privatization and subsequent rehabilitation of the leather industry it is expected that training of local personnel will be of paramount importance. Therefore, the Government, in collaboration with the industry, should prepare a strategy for putting the Leather Institute in Mwanza, where basic infrastructure is available, into operation. Limited technical assistance from UNIDO should also be considered if local inputs are confirmed.

7. The recently established Leather Association of Tanzania should be strengthened as a focal point for the development of the leather industry in the country. The association should also create linkages with other reputable regional and international associations in order to benefit from, and be up-to-date with, developments taking place in the leather world.

8. Training of women in the leather industry should be given priority since at present women are mostly engaged in low or unskilled jobs and have not featured significantly in the past training programmes.

9. Pollution control in the leather industry should go hand-in-hand with the rehabilitation of factories, and special emphasis in this field is needed because previously there was little awareness of environmental hazards. Cooperation between the regional project and the Government authorities should be directed to this issue.

10. Management of the factories should formulate and implement incentive packages for their employees in order to motivate them to better productivity and improved quality of production.

ACTIVITIES AND OUTPUTS

A. <u>Activities</u>

Major activities carried out during project life were as follows.

1. All information related to local policy guidelines and legislation concerning hides and skins, leather and leather products were collected, compiled and submitted to the Government for reaction and comments. Four main recommendations by the project to the Government are:

(a) Government should accelerate privatization of the leather sector by providing the necessary supportive environment.

(b) Government should stimulate revitalization of the sector and increased investments by introducing incentives to the industry.

(c) In order to increase the quality and quantity of raw hides and skins available to the tanning industry, Government should strengthen hides and skins activities.

(d) Government intervention measures should be adopted to limit imports of leather, footwear and leather goods so as to support the development of this sector.

The draft policy outline and new development plans were the subject of discussions held during two separate meetings in Bulawayo, Zimbabwe. The first was held during the seminar on hides and skins improvement from 19-23 November 1990, and the second discussion took place during the FAO ECDC workshop on hides and skins held from 29 July - 2 August 1991.

2. The seminar in November 1990 was attended by international experts, the national expert and senior hides and skins improvement officers from the target area Shinyanga. Among other things they presented a video film they had prepared on hides and skins improvement activities in the Shinyanga region. During this seminar draft guidelines for grading of trimmed skins was presented and distributed to the participants. These grading guidelines are now in use by the project personnel in the target areas.

The project also prepared and printed materials such 75 guidebooks, grading norms, butchers' and flayers' licences and distributed them to all participants of the hides and skins workshop in Arusha and during the seminars in Shinyanga. These materials are used to promote hides and skins improvement in the country. Further, the international expert and the national expert designed a uniform country reporting format

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for statistical intelligence which is used to compile data and provide a reporting system in the Shinyanga region. During the workshop in Arusha it was agreed that the format should be used by all regional hides and skins improvement officers as an official reporting system. The formats comprise:

- hides and skins improvement (extension officers') monthly report,
- regional production data on hides and skins.

Procurement of tools and implements for hides and skins improvement was carried out by Vienna headquarters and locally (see Annex 1).

The international expert and the national expert, in cooperation with the Ministry of Agriculture, conducted three seminars in the target area Shinyanga and one workshop for all regional hides and skins improvement officers in Arusha. The papers presented in that workshop covered the following topics:

- Introduction to the Regional Hides and Skins, Leather and Leather Products Improvement Scheme;
- Results of tannery evaluation;
- Operation of the Ministry of Agriculture;
- Review of national legislation on hides and skins;
- Technical literature on hides and skins;
- A policy for hides and skins improvement in Tanzania;
- Role of NALRP in improvement of hides and skins;
- Extension aids;
- The Leather Association of Tanzania.

3. The national rehabilitation of tanneries and leather goods factories was started by a senior tannery consultant end of 1989 in cooperation with the national expert. After assessing the priority needs for rehabilitation and in consultation with the relevant national institution, Morogoro Tannery and Morogoro Leather Goods factory were selected for rehabilitation.

Spare parts worth US\$ 27,023 were purchased and delivered to Morogoro Tannery between January and August 1990. With the assistance of the machinery maintenance expert most spares were fitted into the machines, putting two shaving machines, two splitting machines, one spraying machine and one buffing machinery into working condition again. Although these machines were operational they were not used for production because the tannery experienced critical working capital constraints and was

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unable to purchase raw materials for production. After realizing this, it was decided that the tanning drum, size 3.5×3.5 m and worth US\$ 52,782, initially purchased for the tannery, should be diverted. This issue was discussed with relevant national authorities and it was jointly agreed that the drum be transferred to Tanzania Tanneries in Moshi which was then in a better financial position. Although the tannery managed to pay clearance and transport charges for the drum, it failed to raise funds for erecting the foundations. Hence the drum remains uninstalled. In this case, assistance has not resulted in the intended output primarily because of lack of local counterpart inputs. This reiterates the necessity of restructuring the old parastatal factories in the leather sector.²

The rehabilitation plan prepared for Morogoro Leather Goods factory resulted in the purchase and delivery of spare parts for US\$ 10,530 under the regional Rehabilitation Project US/RAF/88/102. This input had the following positive impact on the performance of the factory:

- Out of the total 33 available sewing machines only nine were working in 1989, but after rehabilitation 26 machines in working condition, raising the percentage of working machines from 27 to 78 per cent.
- Production of leather articles increased from 3,069 units in 1989 to 8,462 units in 1990, representing an increase of 175 per cent.

Part of the rehabilitation activities was the enhancement of the production of wetblue leather at Afro Leather Industries in Dar-es-Salaam. The relatively new private tannery was considered of potential importance in earning foreign exchange through export of wet-blue hides. In order to enable the tannery to achieve its production capacity of 400 hides per day, an additional fleshing machine and a sammying machine worth US\$ 205,465 were delivered and installed, as well as an additional tanning drum. This tannery is now ready for high production of wet-blue leather for export, and with the current improvement of the world market for this commodity it is expected that significant foreign exchange earnings will be realized.

However, it was also considered inadequate for a tannery to rely only on exports without support of the domestic market. At the same time it was observed that there was a lack of leather on the domestic market. To alleviate this situation, a tannery expert designed and put into operation a production line for vegetable-tanned leather

at A fro Leather Industries. This production line did not need any additional machinery and the basic processing chemicals are available locally. The new line is expected to lessen the critical shortage of vegetable leather which is in great demand by the leather goods and footwear manufacturers.

Regional seminars and workshops were successfully implemented and gave the participants from Tanzania the opportunity to widen their knowledge and enabled them to exchange views, ideas and experiences with their counterparts from other countries of the region. They were also exposed to latest developments in the processes and techniques of production as well as pollution control through lectures by highly experienced international experts and consultants as well as through latest publications and literature on specific subjects which were provided during workshops and seminars. It is expected that the participants, in turn, will pass on that knowledge to their fellow workers for the benefit of the country's leather industry.

Training in leather goods was provided during the two missions of the leather goods expert in March-April 1991 and August-November 1992 when substantial on-thejob training was done at Morogoro Leather Goods Factory and Shah Industries of Moshi. Training Programmes for supervisors and machine operators were implemented on design, pattern cutting, stitching and finishing, costing, quality control, record keeping etc. Improved factory layout was demonstrated in order to create better production conditions. The continuous full utilization of the knowledge imparted so far, is expected to improve output and productivity in the production units covered.

B. Outputs produced by experts and consultants

1. Hides and skins improvement

The subcontractor Ewbank Preece Ltd. was supposed to organize and provide expertise for seminars and demonstrations to achieve improvement of hides and skins from butchering to grading and collection. In fact, a representative visited the target area Shinyanga and submitted a report with recommendations for hides and skins improvement. Some of these recommendations were:

- Hides and skins should be bought by grades.
- Drying sheds and slaughter slabs need to be rehabilitated.
- Local seminars for extension officers should start immediately.

UNIDO, in collaboration with Ewbank Preece Ltd., organized a seminar on bides and skins improvement in Bulawayo, Zimbabwe, where two participants from Tanzania attended. The seminar was very useful as some of the most experienced experts in the field presented papers.

The FAO hides and skins improvement expert came to Tanzania on 9 July 1990. The expected outputs of the project in respect of these raw materials were:

- Improved policy guidelines and industrial strategy for the development of the country's hides and skins.
- An improved, well-operating national hides and skins improvement scheme.
- Improved statistical intelligence.
- Improved quality and increased quantity of raw hides and skins.

In general, most of the mentioned outputs were produced (see Annex 5 for improved quality and quantity, and collections of hides and skins in the Shinyanga region).

With respect to quality the expert was able to reduce the flay cuts on hides originating from abattoirs and slaughter slabs after the provision of tools and conducting education campaigns. He carried out various seminars, visited the target area to advise on better methods of hides and skins improvement, and made a tannery evaluation to determine the major defects affecting hides and skins in the region in order to direct efforts towards eliminating them. The outcome of the tannery evaluation was discussed during the workshop organized in Arusha. The expert prepared the following reports:

- Preliminary report describing the hides and skins project in Shinyanga region, July-September 1990.
- Report on hides and skins activities in Shinyanga region and a seminar in Bulawayo, Zimbabwe, September-November 1990 and December 1990 -January 1991.
- Report on hides and skins activities in Shinyanga region, June-October 1991.
- Report on hides and skins activities in Shinyanga and Mwanza regions, December 1991 - March 1992.
- Report on hides and skins activities in Shinyanga region, April-May 1992.
- Terminal report on hides and skins activities in Tanzania.

2. <u>Rehabilitation</u>

The tannery machinery expert and the tannery consultant prepared the rehabilitation requirements for the Morogoro Tannery and the rehabilitation was implemented by providing the necessary spare parts for the existing machinery and assisting the tannery engineering staff in fitting them, as well as by rectifying some of the mechanical defects in the machines. Given the financial limitations of the project it was not foreseen to replace all the defective machines in the tannery. The need for preparing and implementing preventive maintenance programmes was emphasized in order to avoid frequent machinery breakdowns.

At a later stage the machinery expert made an evaluation of the existing machinery at Morogoro and Mwanza tanneries and recommended the machinery, civil works and factory layouts needed to undertake the complete rehabilitation of these tanneries.

This exercise was undertaken on the assumption that the forthcoming restructuring/privatization of factories would, of necessity, mean total rehabilitation. A detailed report on the rehabilitation requirements of the two tanneries was prepared by the expert and can be made available to the party(ie5) taking over and rehabilitating the said tanneries.

3. <u>Tanning</u>

The most significant output produced by the leather tanning expert is the design and implementation of the vegetable leather production line at Afro Leather Industries. After designing the layout, the expert supervised the implementation and carried out production trials of vegetable-tanned leather. He demonstrated the production techniques and formula for this product and trained the tannery technicians. The production of vegetable-tanned leather is considered to be very important in view of the fact that the domestic market is in great demand of this product, especially the leather goods factories.

4. <u>Leather goods</u>

Outputs produced by the leather goods expert include the identification and recommendation of machinery and spare parts needed for rehabilitating Morogoro Leather Goods Factory and Shah Industries. While part of the rehabilitation requirements were implemented under this project, the rest is to be completed under the second phase of the project. The spare parts supplied to these factories and the new machines delivered to Shah Industries resulted in increased production. Consequently there will be more availability of leather goods to the domestic market as well as increased exports to the world market.

The training undertaken by the leather goods expert has upgraded the skills of the employees of Morogoro Leather Goods Factory and Shah Industries, so that improvement in both quality and quantity of production has been realized. This output is considered to be of great impact because the emphasis has always been on practical training instead of theoretical lectures.

5. <u>Effluent treatment</u>

The consultant in this field made a comprehensive study of the rehabilitation needs of the effluent treatment plant at Afro Leather Industries and prepared the design and list of machinery and equipment. After procurement of the equipment, finalization of civil works and installation of machinery by the suppliers, the consultant put the effluent treatment plant into operation and trained the tannery personnel in its operation and maintenance. Pollution control is a prime environmental issue.

6. Marketing

During his visits to Tanzania, the ITC marketing expert held discussions with senior officials in the Government ministries, the Chamber of Commerce, Board of External Trade, Bank of Tanzania, etc. The objective was to discuss with the relevant officials the existing policies as well as analyse policy options which would assist the development of Tanzania's leather industry. Consideration was also given to formulating an appropriate industrial strategy for the development of the leather industry in the region. Based on these discussions and studies the project produced, as described in Output 1, the document entitled "Improved Policy Guidelines and Industrial Strategy for the Development of the Leather Industry". Major Policy recommendations to the Government of Tanzania were:

- Government should accelerate privatization of the leather industry and provide the necessary supportive environment.
- Government should limit imports of footwear and leather goods to protect domestic industries.
- Government should introduce incentives to the industry, i.e. duty and tax exemption on plant and equipment, export compensation etc.

7. <u>Women in development</u>

Promotion and development of women in the leather industry was an aspect which was given special attention in the regional scheme. An expert in women-indevelopment was fielded to all participating countries. As an initial endeavour the expert analysed the gender pattern of employment and produced a document on the profile of women in the leather industry in the region. The main objective was to create awareness and sensitivity to the role of women, to amply the key trends in the employment distribution of women according to skill categories, and to highlight constraints of increased participation of women in industry activities. Main recommendations included the incorporation of gender issues in all training courses, introduction of specialized training courses for women, and encouragement for training women in non-traditional modes of work.

In her further activities the women-in-development expert focussed on guidelines and strategies for integrating women in the leather industry. The expert's main recommendations included the following:

- Women in the leather industry should be trained in a range of technical, managerial and financial skills.
- Suitable incentive schemes for encouraging women employment in factories should be considered.

The expert's work started to generate awareness of the importance and specific needs of women in the industry. It is expected that this work served as a catalyst for future employment opportunities of women in the leather industry.

C. Findings and results

1. The salting programme, which was initiated by a previous FAO project, is no longer realistic in this country for several reasons; one being that the price of salt is so high that it does not justify salting. Transportation of salt also worsened the situation. It is now encouraged to construct more simple frames for suspension drying.

2. Most of the hides and skins produced in the region, about 70 per cent, come from outside the normal abattoirs and slaughter slabs. In order to reduce ground drying, educational campaigns should be intensified in the rural areas where most of these hides and skins originate.

3. During the tannery evaluation using hides from Shinyanga it was found that major defects affecting the raw materials are as follows:

- brandmarks
- flay cuts
- scratches
- putrefaction.

Efforts were intensified to reduce flay cuts and putrefaction to a satisfactory level.

4. In all the factories studied b^w the project it was observed that none had a functioning preventive maintenance programme. As a result, most of the machines in the tanneries and footwear factories are not functioning. If a maintenance system is not introduced and implemented seriously there would be fast wear and tear on the new machinery supplied by the project and the durability of a total rehabilitation of the factories, as envisaged, would be in doubt.

5. Lack of motivation of workers is another common characteristic of most industries in Tanzania. It was observed that the morale of workers is generally low, characterized by poor attendance, lack of concentration at work, disregard for work regulations etc. This is considered to be attributable to the lack of financial/material incentives coupled with an unsatisfactory environment, e.g. lack of proper working tools, absence of ventilation in some cases, lack of safety precautions etc. The result of all these factors is low productivity and disregard for quality.

II. ACHIEVEMENT OF IMMEDIATE OBJECTIVES

As far as the hides and skins improvement is concerned much work was done to accomplish the objectives. Data collection is progressing well and imported facilities and tools were supplied. Seminars for butchers and extension officers were conducted. A tannery evaluation revealed the defects in the quality of hides and skins available in Shinyanga, pointing the direction in which urgent action should be taken. Education campaigns through posters and videos were launched to reduce or minimize ground drying, branding and flay cuts which are the major defects down-grading the raw material in the region. More progress in these activities is expected now that the problem of spares for the vehicles and motorbikes has been resolved. Repair and construction of drying sheds, slaughter slabs and fleshing tables were undertaken. In summary it can be said that the results of the activities in the target area are in line with the objectives of the project.

The rehabilitation programme was successful in the supply and installation of machinery. Production and capacity utilization were substantially improved in the rehabilitated factories. Construction of the effluent treatment plant at Afro Leather has a positive effect on the environment. Supply of machinery and spares to Shah Industries resulted in an increase in the output and quality of production. Technical seminars at the regional level in machinery maintenance, leather tanning and finishing, pollution control, leather goods, as well as hides and skins improvement were effective in enhancing the knowledge and skills of personnel in the industry.

III. UTILIZATION OF PROJECT RESULTS

In hides and skins improvements grading norms, data collection sheets as well as rehabilitated slaughter slabs, abattoirs and drying sheds are being effectively utilized. Trained personnel are active in conducting education campaigns for livestock keepers and farmers in order to reduce the scale of bad brands and ground drying. Such campaigns are also directed to skinners and flayers to eliminate flay cuts. Ground drying, branding and flay cuts were found to be the major defects affecting hides and skins in Shinyanga.

In the workshops for hides and skins improvement conducted at Arusha, participants from tanneries, hides and skins merchants as well as regional hides and skins improvement officers and senior government officials from the Ministry of Agriculture were presented with the findings of the project activities in Shinyanga region for adoption and utilization on a country-wide basis.

In the tanning industry the results can only be partly utilized by the Morogoro Tannery because the tannery lacks funds for purchasing raw materials needed to work with the rehabilitated machines. In the case of Afro Leather the delay in civil works construction and installation of the drum allowed only partial results. However, these have now been completed and, therefore, the activities are expected to pick up significantly. Noticeable application of project results can be found in the leather goods industry where the rehabilitated equipment and new machines supplied are in continuous production. Moreover, designs introduced by the expert are being produced and sold on the market and the trained personnel is employed effectively. This situation applies to both Shah Industries and Morogoro Leather Goods Factory.

IV. CONCLUSIONS

1. In spite of the vast size of the target area Shinyanga, the project activities were successful in many fields, particularly in the training of extension staff and supply of equipment such as flaying knives, ripping knives, bicycles, motorbikes and motor vehicles. Furthermore, the project created an awareness of the need for change in the method of preservation by concentrating on suspension drying rather than salting.

2. With the establishment of the "revolving fund" for hides and skins improvement, there is an assurance that the activities in the target area will continue uninterrupted. This will be a catalyst to the Government in creating similar conditions for hides and skins improvement in other parts of the country.

3. Tannery evaluation is necessary to determine the exact situation of the raw material in terms of quality at any selected target area. Once this is done it will not be difficult for extension officers to set goals or targets for improvement of hides and skins in these areas.

4. For the proper implementation of hides and skins improvement work experts should be in the field most of the time where they will fully participate in the activities.

5. The Leather Association of Tanzania should work closely with the Government for better improvement of hides and skins, leather and leather products.

6. The issue of motivation of workers through appropriate incentives should ge hand-in-hand with the rehabilitation of the leather subsector. Rehabilitation of machinery alone without rectification of the human element would not produce the desired results.

7. Management of factories needs to be more dynamic and scientific in their approach to the questions of productivity, quality, costing, marketing etc. in order to enable their enterprises to survive under the rising competitive conditions. This needs to be emphasized because of the monopolistic situation previously existing in the country.

8. The need for introduction and implementation of a management information system should be examined for all enterprises as this appears to be lacking in the

Tanzanian leather industry. An adequate information system is of great importance in managerial decision-making.

9. Facilities provided by the project to the tanning and leather goods industries in terms of equipment, spare parts and training should be properly utilized by the factories in order to obtain maximum results from the assistance received.

10. The experience gained in the course of implementing the present project is considered to be of significant assistance in improving the strategies and implementation activities of the second phase of the project.

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Project Number US/URT/88/100

UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION NON-EXPENDABLE PROPERTY CONTROL RECORD

Page No. : 1

Period Ending : DECEMBER-91

Country : UNITED REP OF TANZANIA

Project Tille : NATIONAL HIDES AND SKINS, LEATHER AND LEATHER PRODUCTS IMPROVEMENT SCHEME - EAST AFRICA (ALSO REF. US/RAF/88/100)

Purchase Order Number	Item No.	Description	aty. ora.	US Dollar Equivalent	. R Qty.	ecetve M	d Y	Cond.	Qty On Hand	Remarks
18-0-00332	1	OLIVETTI PHOTOCOPYING MACHINE, MODEL 7025.	1	2,184,00	1	510	90	G	1	
15-0-00471V	1	WESTINGHOUSE AH-094. 9,000 BUT/HR ROOM AIRCONDITIONER.	1	421.00	1	06	90	: G	1	
15-0-01509	1	HONDA MODEL EG 550 PORTABLE PETROL GENERATOR.	1	706.00	1	12	90	a	1	
15-1-00872	1	MACHINE CODE 26.10.03 BELT EDGE INKING MACHINE,	1	1,444.00	1	.12	91	G	1	
15-1-00872	2	MACHINE CODE 26.06.11 EDGE FOLDING MACHINE.	1	639.00	1	12	91	G	1	
15-1-00872	3	MACHINE CODE 23.01.22 GUILLOTINE, HAND-OPERATED.	1	3,103.00	1	12	91	0	1	
15-9-00893	,	'HONDA' MOTORCYCLE MODEL: XL185SD DK.	6	10,954.00	6	[C .	· (,		6	
15-9-00894	11	SUZUKI 4WD (SJ413V-JA).	1	5,000.00	1	01	90	G	1	
		CHASSIS NUMBER ===> SJ70-301530 Engine Number ===> G13BA130717 Registration No. => 2031X539								
15-9-00922	1	TOYOTA DYNA 350 DIESEL PICKUP DLX, MODEL BU91R-MDDT.	1	15,286.00	1	12	89	7	1	
		CHASSIS NUMBER ===> BU91-0001342 ENGINE NUMBER ====> 14B-1079793 REGISTRATION NO. => 203 TX 522								
							}	}		

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roject Numbe	r : US/	/URT/88/100						Page	No. :	2
Country : UN	IITED R	EP OF TANZANIA								
Purchase Order	Item	Descr 1pt ion	Qty.	US Dollar	A	ecetve	d 	Cond.	Qty On	Remarks
Number	NO.		Ord.	Equivalent	Qty.	M	¥		Hand	
15-9-00922	3 11	LOYOTA HILUX 4X4 PICKUP, DIESEL, DOUBLE CAB, Model LN106R-PRMRS.	1	11,650.00	1	01	90	в	1	
		CHASSIS NUMBER ===> LN106-0020062 ENGINE NUMBER ===> 3L-2016508 REGISTRATION NO. => 203 TX 526								
15-9-01269	1	SAMMYING MACHINE: FEL' SLEEVE DIAM. 225 X 1800.	1	1,004.00	1	08	90	G		
1 5-9- 01269 `	2	SPLITTING MACHINE ARENDONK 11.252A COMMODORE 100 mm, 537/VI year 1974: Gauge Roller Complete Pos, No. 30, DLAIT NO. 17C.	1	3,158.00	1	80	90	G		
15-9-01269	3	RING ROLLER COMPLETE PART NO. 435.00439.	4	14,805.00	4	08	90	a		
15-9-01457	1	NATIONAL MODEL NV-M7EN VHS PORTABLE VIDEO Movie Camera with auto-focus, complete with Charger and battery, pal system,	1	1,130.00	1	01	90	G	1	
15-9-01457	2	NATIONAL MODEL NV-G30EN VHS COLOR VIDEO CASSETTE RECORDER WITH WIRELESS REMOTE CONTROL, PAL SYSTEM.	1	436.00	1	01	90	G	1	
15-9-01457	3	SONY MODEL KV-2183GE 21" COLOR TV WITH WIRELESS REMOTE CONTROL, PAL SYSTEM.	1	506.00	1	01	90	G	1	
15-9-01462	1	BRAUN MULTIMAG 2025AFI 35MM SLIDE PROJECTOR W/85MM F2.8 LENS 110-240V, 50/60HZ S#16849952.	1	388.00	1	60	90	G	1	
15-9-01462	2	ELMO HP-A270 OVERHEAD PROJECTOR W/O WRITING Roll 220V, 50/60HZ S#204128.	1	473.00	1	06	90	G	1	
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ject Number : US/URT/88/100									Page No. : 3				
NITED R	REP OF TANZANIA												
Item No.	Description	Qty.	I'S Dollar		· · · · ·		Cond.	Qty On	Remarks				
				Qty.	M	Y		Hand					
1	VULCAN DRUM 3,5 X 3,5 FOR SOAKING LIMING WITH ELECTRIC CONTROL PANEL "OLCINA-SIEMENS".	1	49,183.00	1	05	90	G	1	Not installed yet				
							; ; ;						
	i												
	Item No.	NITED REP OF TANZANIA	NITED REP OF TANZANIA	NITED REP OF TANZANIA Item No. Qty. I'S Dollar Ljulvalent	NITED REP OF TANZANIA Item Description Qty. IIS Dollar R Drd. Ljulvalent Qty.	NITED REP OF TANZANIA Item Description Qty. IIS Dollar Receive No. Drd. Liuivalent Qty. M	NITED REP OF TANZANIA Item No. Qty. IIS Dollar Luivalent Received No. Description Qty. IIS Dollar Luivalent Qty. M Y	NITED REP OF TANZANIA Item No. Qty. IIS Dollar L.juivalent Received Cond.	NITED REP OF TANZANIA Item No. Description Qty. IIS Dollar L.uivalent Received Cond. On Hand Qty On Hand				

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Project Number	UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION	Page No. : 4
US/URT/88/100	NON-EXPENDABLE PROPERTY CONTROL RECORD	Period Ending : DECEMBER-91
ountry : UNITED REP OF	TANZANIA	
oject Title : NATIONAL HI REF. US/RAF	DES AND SKINS, LEATHER AND LEATHER PRODUCTS IMPROVEMENT SCHEME - EAST AFR /88/100)	ICA (ALSO
We certify th	at the quantities of non-expendable equipment received, less the quantities of non-exp	endable equipment
•	eflect the physical count of the items on hand.	
	STATOD FROJECT US/URT/80/100	
Unido projec		7.2.92
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LIST OF EQUIPMENT

EQUIPMENT	VALUE US \$	DELIVERY	REMARKS
Toyota Dyna Pick-up	15,286	December 1989	For Target area
Toyota Hilux D-Cab (2)	23,300	December 1989	For Target area
Suzuki S Wagon	5,000	Januar y 1990	For Project office
Honda Motor Cycles (6)	10,954	February 1990	For target area
Soaking/ Liming Drum	49,183	May, 1990	For Morogoro later diverted to Moshi
Knives	2,294	Dec.89, Oct 90	For target area
Spares for Morogoro Tanne ry	37,023	January 1990	Morogoro Tannery
Spares for Moro. Leather Goods	10,504	January, 1990	Morogoro Lesther
Pulleys	2,865	October, 1990	Target area
Video TV & Camera & Cassette	2,072	January, 1990	Training
Slide Projector	388	June, 1990	Training
Air Conditioner	421	June, 1990	Project Office
Photocopier	2,184	October, 1990	Project Office
Por:able Generator	706	December 1990	Training
Fleshing Machine	89,830	January 1991	Afro Leather
Sammying machine	102,175	January 1991	Afro Leather
Effluent Treatment Equip.	50,157	Jul y , 1991	Afro Leather
Overhead Projector	473	July, 1990	Training
Sewing Machines (3)	8,229	February'92	Shah Industries
Folding & Guillotine Machines (2)	8,008	February' 92	Shah Industries
Steel Rules	708	February' 92	Shah Industries
Spare Parts	23,123	February'92	Shah Industries
Tanning Drum	46,142	May, 1992	Afro Leather

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28 ANNEX 2

International Staff

Post Title	Name of Incumbent	Date of Mission	Objectives
arketing Expert	D. Manly	-April'90 - Feb. 1991	Follow up of policy
aintenance.	1.A. Rongved	- Feb. 1990	Machinery assessment.
Experts	2.A. Zink	- Jun. 1991	Assessment of Afro, Morogoro & Mwanza Tanreries rehabilitation
		- Sept/Oct'92	Installation of drum at Afro Leather
eather Goods Experts	1. D. Tracy	-March/Apr.91	Rebabilitation needs and training at Shah Industries and Morogoro Leather Goods
		July/Sept.92 Oct/Nov. 92	Purther training at above factories.
	2. P. Sinturel	Nov. 91	Preparation for Leather goods
		March/Apr.92	workshop. Regional Leather Goods workshop, Morogoro.
		June, 1992	Preparation for Leather Pair, Pirmasens.
Vomen Development Expert	H. Chigudu	- May'91	Prepare Profile of Women in Leather Industry
		- April 91	Participate in Leather goods, workshop and identify training needs for women.
annery	C. Ma _r zo	- Nov. 1991	Design vegetable leather line
xpert		Feb/March ¹ 92	at Afro Leather Starting up production of vegetable leather.
ffluent Treatment	G. Clonfero	-Мау 90	Rehabilitation needs for Afro Effluent Treatment Plant
xpert		-March 92	Commissioning of Effluent Treatment Plant at Afro.
Seather Industry Sonsultant	S.M. Kiruthu	Apr/June 92	Assess Project Implementation prepare work plan for Phase Two.

CHILL II

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Post Title	Name of Incumbent	Date of Mission	Objectives
Chief Technical Ad. sor	G. Peløner	- Sept. 91 - March 92 -	Follow up project activities and attend TPR meeting 10.10.91 Leather Goods Workshop and fellow up mission
		- Oct. 1992	Pollow up mission.
Associate Expert	J. Nishida	- March 1992	Leather Goods Workshop and follow up mission
Back stopping Officer	J. Berg	- Dec. 1990	Provide backstopping services and prepare new project document for phase Two
		- Feb. 92	Mission to Moshi with CTA to assess plans for phase Two.
Hides & Skins Expert.	I.B. Lead	July-Nov. 1990	Prepare Video and materials for hides & skins seminar.
		June-July'91	Project activities in Shinyanga
		July-Nov. 1991	Conduct Tannery evaluation & participate in the first TFR Meeting.
		Dec.91-Mar. 92	Conduct hides/skins seminar in Shinyanga and other activities.
		April-May 1992	Preparation of Terminal report and conduct Seminar on H & S in Arusha.

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Post Title	Name of Incumbert	Full or	Bntry of	Departure		
		Part Time	Sch.	Act.	Sch.	Act.
COORDINATORS	1. Dr. Willinga	P	1989	1989		
	2. Mr. Nwailolo	P	19 8 9	1989		
HIDES/SKINS IMPROVEMENT	1. H.S. Muro	2	1989	1989		
OFFICERS	2. A. Wwapenele	2	1989	1989		
EXTENSION	1. J. Madusa	2	1989	1989		
OFFICERS	2. J. Baritha	2	1989	1989		
	3. S. Ndege	P	1989	1989		
	4. R. Ramadhani	P	1989	1989		
	5. D. Gervas	2	1989	1989		

Senio	r Coun	terpart	Staff

NOTE

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H.S. Nuro	Senior Hidea/Skins improvement Officer, Ministry of Agriculture HQS.
A. Mwasemele:	Senior Hides/Skins improvement Officer, Shinyanga Region
J. Madusa:	Hides/Skins improvement officer, Bariadi District
J. Banitha:	Ridem/Skins improvement officer, Shinyanga District
S. Ndege:	Hides/Skins improvement Officer, Kahama District
R. Ramadhani:	Hides/Skins improvement Officer, Maswa District
D. Gervas:	Hidea/Skins improvement officer, Neatu District

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Fellowships

		Names and Country	Star	ted	Completed		
Pellowship Course	Duration	of Study	Sched	Actual	Sched	Actual	
Study Hides & skins & Fours - Red meat	2 weeks	Dr. Nillinga USA	Sep 90	Sep 90			
- Attend Semaine du cuir	1 week	Y. Mwailolo Prance	Sep 90	Sep 90			
- Visiting factories for familiarization	1 2 weeks	E. Muyinga Germany Switzerland	May 91	May 91			
Machine ry Maintenance		P. Variro-Ethiopia					
sezinar	1 week	B. Baran "	Oct 90	Oct 90			
		D. M. fumu "					
Hides/Skins	1 week	E. Muyinga-Zimb.	Nov 90	X ov 90			
Setinar		A. Tuju-Zimbabwe					
Tanning/Pinishing	2 weeks	A. Bomba-Kenya	Apr 91	Apr 91			
Seninar		W. Mkindi					
		R. Rauya					
		M. Kweka			Į		
		A. Mahugu			ł		
		A. Viswan					
Tanning course	2 month	C. Kida-Zimbabwe	May 91	Jun 91			
Leather Goods course	9 month	V. Shah-UK	Sep 91	Sep 91			
Hides/skins	1 week	S. Massay-Zimb.	Jul 91	Jul 91			
Workshop		Dr. Millinga					
Effluent	4 days	S. Massay-Kenya	May 92	Jun 92			
Treatment		J. Nzowah					
Seminar		E. Makinge					
		D. Ndunguru		1		1	
	1	M. Moshe				l	

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Statistical Data

YEAR	CATTLE	GOAT	SHEEP
1985/6	12332648	6671391	2958853
1986/7	12372786	6823207	2877950
1987/8	12412923	6975023	2797128
198 8/9	12453061	7126840	2716265
1989/90	12493199	7278656	2635402
1990/1	12533337	7430472	2554540
1991/2	12573475	7582289	2473677

LIVESTOCK RESOURCES IN TANZANIA

Source: Projections based on 1978 and 1984 livestock counts: $+0.\overline{f_2}, +2.0\overline{f_2}$

An indication of number of hides and skins available to the industry is provided by applying generally accepted off takes rates of 8% (Cattle), 25% (goats) and 15% (sheep)

ESTIMATED AVAILABILITY OF FIDES AND SKINS

YEAR	CATTLE HIDES	GOAT SKINS	Sheep skins
1985/6	98661 2	1667848	443828
1986/7	9 8 9823	1705802	431699
1987/8	993034	1743756	419562
1988/9	996245	1781710	407440
1989/90	999456	1819661	395310
1990/1	1002667	1857618	383181
1991/2	1005878	1895572	371052

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Estimates of Livestock in Shinyanga

YEAR	CATTLE	GOAT	SHEEP
1986/87	1977529	987654	487530
1987/88	2015708	1033985	487822
1988/89	2053887	1080316	488115
1989/90	2092066	1126647	488408
1990/91	2130245	1172978	488700

Potential supply of Hides/Skins in Shinyanga

YEAR	HIDES	GOAT SKINS	SHEEP SKINS
1987	158202	246914	73130
1988	161257	258496	73173
1989	164311	270079	73217
1990	167365	281662	73161
1991	170620	293245	73305

Recovery of Hides and Skins Shinyanga Regional

YEAR	HIDES	GOAT SKINS	SHEEP SKINS
1987	515	455"	33%
1988	537	44"	36%
1989	567	48"	43%
1990	605	52:	49%
1991	685	58"	54%

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Number of hides and skins available in Tanzania from recorded and unrecorded slaughterings, the numbers actually collected were as follows:-

Hides and Skins Collections

YEAR	CATTLE	goat skins	SHEEP SKINS	ALL SKIRS
1985	335000	199000	73000	272000
1986	418019(42)	228624(14)	85462(20)	314086(15)
1987	474179(48)	326036(19)	85760(20)	411796(19)
1988	725115(73)	408000(23)	203175(45)	611175(28)
1989	815325(82)	605252(34)	375120(93)	980372(45)
1990	775105(77)	506175(28)	327840'84)	834015(37)
1991	705276(70)	525180(28)	301870(81)	827050(37)

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Source: M.A. E.J. Muyinga and I.B. Leach

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PROJECT ALLOFMENT DOCUMENT

DA/FS/FMTC

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NANEX

Project Number/Amendment	Status	Country UNITED RE AFRICA/LO	P OF TANZANIA	Pad Date		Programine Element J 13104		A. Name			
US/URT/88/100 G	0		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~								
Project Tille National Hides and Skins, Le Improvement Scheme – East Af		LEATHER PRO	DUCTS	Backstopping Officer Name: MS. CALABRO							
IMPROVEMENT SCHEME - EAST AF	RICA (ALS	SO REF. US/RA	F/88/100)	Multi-Fund I	Projects:						
Authority REVISION REQUEST 30/3/1993				Remarks							
IDF: I R.B:	Турс:	1G0 (Codc:	TSS-AOS:		Donor: ITA	COB Date:				
SIGNED ORIGINAL IN	DA/FS/	FMTC PROJ	ECT FILE	Medium Terr	n Plan:		• • • • • • • • • • • • • • • •				
Budget Runational Title		· · · · · · · · · · · · · · · · · · ·	1 1002	1002	1003	1004	1006				
Line Functional Title		Total	prior to ¹⁹⁹²	1992	1993	1994	1995	Subscq.			
13-00 ADMINISTRATIVE SUPPORT	P \$.	1,343		1,343			······································				
15-00 PROJECT TRAVEL	\$.	89,791	43,690	45,229	872						
18-00 OTHER PERSONNEL COSTS	\$.	2,528	348	2,180							
17-01 NAT EXP. LEATHER INDUS	TR S.	31,184 48 .0	15,972 30.0	9,503 12.0	5,709 6.0						
17-02 NAT EXP. LEATHER INDUS	TR S. WM.	34,984 48 .0	15,968 30.0	11,102 12.0	7,914 6.0		Í				
18-00 SURRENDER PY OBLIGS	s .	19,144-	18,019-	1,125-							
IX-XX SUB-TOTAL	S. WM	140,686 96.0	57,959 60.0	68,232 24 .0	14,495 12.0						
31-00 INDIVIDUAL FELLOWSHIPS	\$.	16,400	12,447	3,953							
32-00 STUDY-TOURS/UNDP GROUP	т \$.	14,001	6,039	7,962							
33-00 IN-SERVICE TRAINING	\$.	23,498	7,554	9,994	5,950		1				
38-00 SURRENDER PY OBLIGS	\$.	7,500-	7,500-								
3X-XX SUB-TOTAL	\$.	46,399	18,540	21,909	5,950						
41-00 EXPENDABLE EQUIPMENT	\$.	42,187	38,820	3,367							
							ł				

Project Number/Amendment: US/L	JRT/88	/100 G			Pad Date printed	l: 93-04-08	Page Number:	2
Budget Functional Title		Total	Prior to 1992	1992	1993	1994	1995	Subseq.
42-00 NON-EXPENDABLE EQUIPMENT	s .	309,796	261,940	46,502	1,354			
43-00 PREMISES	\$.	2,800		2,800				{
48-00 SURRENDER PY OBLIGS	\$.	8,627-	2,183-	3,031-	3,413-			ļ
4X-XX SUB-TOTAL	\$.	346,156	298,577	49,638	2,059-			
51-00 SUNDRIES	s .	74,424	22,888	42,387	9,149			
58-00 SURRENDER PY OBLIGS	\$.	2,265-	1,006-	1,259-				
SX-XX SUB-TOTAL	s .	72,159	21,882	41,128	9,149			
•								
99-99 PROJECT TOTAL	S. WM	605,400 96.0	396,958 60.0	180,907	27,535			

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NIDO	TE 1993-11 - UMAP02/8	-03	DETAIL REP By P	ORT ON PROGRAM	ROJECTS AS	AT 1993- COUNTRY	0-31			CT NUMBE		RT/88/100	PAGE 2	236	
ROJEC	CT TITLE	NATION IMPROV	AL HIDES AND Ement Scheme	SKINS. - EAST	LEATHER AND AFRICA (ALS)	LEATHER D REF US	PRODUCTS 7 RAF / 88 / 10	00)	PROJE PROJE PGM-E	CT REVIS CT STATU Lement C Issued	110N G 15 0 - CODE J131	MS CALABRO ONGOING 04 8 LAST UPD/	NTED 93-04	- 0 a	
UDGET	DESCRIPT	TOTAL	ALLOTMENT	CURR	YR PHASING	PRIOR	YEAR EXP	CURR	YR DISB		R YR OBL	COMMITTED	BALANCE	UNCOMMITTED	YTO IM
		M/M (1)	DOLLARS (2)	M/M (3)	DOLLARS	M/M (5)	DOLLARS (8)	M/M (7)	DOLLARS	M/M (9)	DOLLARS	FUTURE YEARS (11)	CURA YA (12)	BALANCE (13)	VERSU PHASIN
3-00		38	1.343	88	8	88	0	00		0 0		0	- fai÷é≕io) f 0	2-6-8-10-11) 343 343-	
j-99	ADMIN SUPP	0.0	1,343	0.0	0	0.0	1343	00	-	0.0 0.0	-	•	Ō		
3-00		0 0	89.79)	0 0	872	0 0	0	0 0	0		•	0	0 872	0 89,791	
5-01 5-10 5-99	TRAVEL	88	0		00	ÕÕ	86919	88		000	8 8		1,643-	90. 58 <u>2</u> -	
		0 0	89.791	0 0	872	0 0	88918	0 0	1643	0 0) o	0	771-	770-	188
8-00		88	2.528	88	8	88	2528	00	8	0 0	8	8	0	2 528 2 528-	
	OTHER PERS	0.0	2,828	0.0	ő	0.0	2628	0.0		0.0		0	0	2.528-	
7-01		48 0	31,184	6 0	5.709	42 0	25475	6 0	7483	0 0		_	1.749-	1.749-	130
7-02		48 0	34.984	6 0	7,914	42 0	27070	6 0	5838	0 0	0	0	2.278	2.278	71
7-99	NATIONALS	98 D	88.168	12 0	13,623	84 0	52545	12 0	13101	0 0) 5	· 0	527	527	× 96 _%
8-00 8-05		000	19,144-	00	0	0 0	0 15801-	00	p	000	o o	õ	Q	19.144-	~
8-06		ŏ ŏ	ŏ	000	000	000	3335-	000	0	000	Õ	0	000	15 801	
	SUR PY.ODI	0.0	18,144-	0.0	0	0.0	19144-	0.0	0	0.0		0	0	0	
9-99	PERSONNEL	98 0	140.686	12 0	14.495	84 0	126190	12 0	14744	0 0	. 5	- 0	244-	243-	101
1-00			16.400	000	0	000	3050	00	0	0 0	g	Q	Q	16.400	***
1-02	FELLOWS	ŌŌ	ŏ	öö	ŏ	ŏŏ	13351	ăă	ő		0		0	3 050- 13 351-	
		0.0	18,400	0.0	0	0.0	16401	0.0	0	0.0	0	0	0	1 -	
2-00		0 0 0 0 0 0	14.001		000	000	6 J 2 9 3 7 6 J	000	000		ō	000	000	14 001 6 039-	

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RUN-DATE 1993-11-03 UN1DO - UMAPO2/8

PROJECT TITLE

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DETAIL REPORT ON PROJECTS AS AT 1993-10-31 By program element and country National Hides and Skins. Leather and leather products Improvement Scheme - East Africa (Also Ref. US/RAF/88/100) PROJECT NUMBER US/URT/88/100

PAGE 2237

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BACK STOPPING OFFICER MF CALABRO PROJECT REVISION G PROJECT STATUS O - ONGOING PGM-ELEMENT CODE J13104 FIRST ISSUED 89-03-05 LAST UPDATED 93-04-08 DONOR ITA

								DONOR	ITA	83 63 6				
BUDGET LINE DESCRIPT	TOTAL	ALLOTMENT	CURR	YR PHASING	PRIOR	YEAR EXP	CURR	YR DISB	BAL CUR	A YA OBL	COMMITTED FUTURE	BALANCE CURR YR	UNCOMMETTED BALANCE	VID IMPL VERSUS
-	M/M (1)	DOLLARS	M/M (3)	DOLLARS (4)	M/M (5)	DOLLARS (6)	M/M (7)	DOLLARS (8)	M/M (9)	DOLLARS (10)	YEARS (III)	(12)	(13) 2-0-6-10-111	PHASING (14)
32-03 32-00 STUDYTOURS	0 0	0	0 0	0	0 0	4190	0	0 0	0 0	0	U	0	4 199+	
32-98 STUDYTOURS	0.0	14,001	0.0	0	0.0	14001	0 .	o 0	0.0	0	0	0	0	
33-00 33-01	8 8	23,498 0	000	5.950	000	17548	8	0 4947				5 950 4 947	23 498 22 495 -	
33-09 INSERVICE	0 0	23.498	0 0	5,950	0 0	17548	0	0 4947	0 0	0	n	1 003	1 003	a 3 %\$
38-00 38-03 38-99 Sur Py Obl	88	7.500-	88	8	000	7500-	8	0 0 0 0		0 0		0	7 500- 7 500	
	0.0	7,800-	0.0	0	0.0	7600-	Ο.	0 0	0.0	0	0	0	0	
39-99 TRAINING	0 0	46.399	c o	5 850	0 0	40450	o	0 4947	n o	n	n	1 003	1 002	د ۸ **
4)-00 4)-10 41-11 41-12	0000	42,187 0 0	0000	0000	00000	0 14468 27403 296	0 0 0		Ö Ö	0	Õ	0000	42 187 14 488- 27 403- 296-	
41-88 EXPENDABL	0.0	42,187	0.0	0	0.0	42187	Ο.	o 0	0.0	• •	0	٥	0	
42-00 42-01	000	309,796 0	000	1,354 0		0 008442	0	0 3317				1.354 3.312	309 796 311 754-	
42-99 NONEXPEND	0 0	309.796	0 0	1,354	0 0	308442	0	0 3313	0.0	0	U	I 958		244 %8
43-00 43-11	88	2.800 0	2 0	°,	000	2800	8	0 0		0		0	2 800 2 800-	
43-99 PREMISES	0.0	2.800	0.0	0	0.0	2800	Ο.	• •	0.0	0	0	0	0	
48-00 48-01 48-02	0 0 0 0	8,827- 0 0	000	3.413- 0 0		2050- 2254-	0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00		i ú	0.413 0.414	8,027* 2,959 5,568	
48-89 SUR PY OBL	0.0	8,827-	0.0	3,413-	0.0	6213-	Ο.	0 3414	- 0.0	0	0	1	0	
49-99 EQUIPMENT	0.0	348, 156	0.0	2,059-	0.0	348216	C .	0 102	- 0.0	· •	0	1,957	- 1,958-	

RUN-DATE: 1993-11 UNIDO - UKAP02/B	-03	DETAIL REPO	T ON P	ROJECTS AS AT	1993-1	0-31		PROJI	CT NUMB	ER: US/U	RT/86/100	PAGE 2	2238	
PROJECT TITLE	NATION IMPROV	BT PH AL HIDES AND S EMENT SCHEME	SKINS .	LEMENT AND CO LEATMER AND L AFRICA (ALSO	EATHER	PRODUCTS /RAF/88/100))	PROJ PROJ PGM-1	CT REVI CT STATI LEMENT	US 0 -		NTED 93-04	-08	
BUDGET LINE DESCRIPT	TOTAL M/M (1)	ALLOTMENT DOLLARS	CURR M/M (3)	VR PHASING DOLLARS	PR10R M/M (5)	DOLLARS	CURR M/M (7)	DOLLARS	BAL CU M/M (9)	DOLLARS	COMMITTED FUTURE YEARS (11)	BALANCE CURR YR	UNCOMMITTED BALANCE	YTD IMPL VERSUS Phasing 114 F
51-00 51-10 51-22 61-30 81-40 51-41	000000	74,424 0 0 0 0 0	000000	9 149 0 0 0 0	000000000000000000000000000000000000000	0 45874 18 6084 12500 717	000000	0 698 0 0 0 0				(4-8-10) (9.149 6.985 0 0 0 004- 0 004- 0	(2-6-8-10-11) 74.424 - 52.659- 16- 6.084- 13.547- 717-	
SI-99 SUNDRIES	0 0	74.424	0 0	9.149	0 0	85274	0	0 794	0	0 0	٥	1.200	1.201	86 %\$
58-00 58-01 58-99 Sur Py Obl	0 0 0.0	2.265- 2.265-	00 00 00	0 0	00 00 0.0	2265- 2265-	0 0.	-	0000 0000			0 0	2 265- 2 265 0	
59-99 WISC COST	0 0	72.159	0 0	9,149	0 0	63009	0	D 794		o a	0	1.200	1.201	88 %8
99-99 PROJ TOT	96 0	605.400	12 0	27.835	84 0	577805	12	0 2753	3 0	0 5	0	2	2	09

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99 %\$