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

US/SUD/88/100

Terminal report\*

Prepared for the Government of the Sudan  
by the United Nations Industrial Development Organization

Based on the work of  
Ahmed Abbo, national expert

Backstopping Officers: Juhani Berg, Aurelia Calabro  
Agro-based Industries Branch

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\* This document has not been edited.

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## EXPLANATORY NOTES

### 1. Value of local currency:

Throughout project duration the exchange rate of the local currency per 1 US\$ was as follows:

Date:	Exchange rate L.S
01/05/1990	4.40
01/05/1991	12.10
15/05/1991	12.30
01/06/1991	12.20
15/10/1991	14.90
01/02/1992	90.00
01/03/1992	94.00
06/05/1992	100.00
01/07/1992	96.00
01/08/1992	101.00
01/10/1992	110.00
12/10/1992	120.00
01/01/1993	134.00
01/02/1993	136.00
01/05/1993	136.00

### 2. Abbreviations

BSO	Backstopping officer
CTA	Chief Technical Adviser
FAO	Food and Agriculture Organization of the United Nations
IDF	Industrial Development Fund
ITC	International Trade Centre UNCTAD/GATT
IRCC	Industrial Research and Consulting
LTMIC	Leather Trading and Manufacturing Company (Ltd.) Sudan
L.S.	Sudanese Pounds
MANRAR	Ministry of Agriculture, Natural Resources and Animal Resources
UNIDO	United Nations Industrial Development Organization

## ABSTRACT

The National Hides and Skins, Leather and Leather Products Improvement Scheme US/SUD/88/100 was financed by the Government of Italy through a special purpose contribution to the IDF and was associated with the Regional Programme US/RAF/88/100 which covered also Ethiopia, Kenya, Malawi, Somalia, Tanzania, Zambia and Zimbabwe. The programme was implemented by UNIDO as the executing agency in cooperation with FAO and ITC as associated agencies. Project operations started in January 1990 and are scheduled for completion end of December 1993.

The overall objective of the project was to upgrade the leather sector on all levels from raw materials to finished products to improve the economic situation of those involved in the industry and the country as a whole, as well as to become a source of semi-processed and finished products for the international market.

The outputs of the project included:

- Improved policy and strategy for the development of the country's subsector.
- A well-operating national hides and skins improvement scheme.
- Improved statistical intelligence throughout the region.
- Improved quality and increased quantity of raw hides and skins through incentives to primary producers and a realistic quality grading systems based on a well-operating hides and skins improvement.
- Rehabilitation of selected tannery, shoe factory and leather goods plants to improve productivity and train personnel to increase productivity, capacity utilization and improve the quality.

The findings highlighted:

- The Sudan is potentially the second livestock and hides and skins producing country in Africa.
- Hides and skins improvement services need a lot of efforts to decrease maltreatment and minimize defects. This is to be achieved through improvement of slaughtering facilities
- Practical improvement schemes making use of the UNIDO pilot scheme should be adopted and extended to other target areas and states until the whole Sudan is covered in the long term. This should include legislation, incentives, motivation of staff, and standardization based on the UNIDO project pilot scheme.

- There is a large scope to increase capacity utilization of tanneries after rehabilitation and privatization.
- There is need for a special programme for the leather products sector to utilize the idle capacities in factories and to assist the artisans and small footwear units, through training and utilizing the facilities at the leather institute.
- The National Comprehensive Strategy for the subsector offers a good frame for addressing the above issues, however, it needs technical assistance from international agencies to achieve the goals.

The main recommendations can be summarized as follows:

- The Government and the Sudanese Industries Association are to establish a strong, motivated hides and skins improvement service with effective extension services.
- Update the legislation for hides improvement and the subsector.
- With the assistance of UNIDO and FAO start a short-term and long term-training programme for the leather subsector.
- To consolidate the privatization and liberalization policies, more action should be expected from competent associations.
- There is much need for the Sudan to participate in the proposed phase 2 of the programme to mobilized the leather subsector further and obtain more contribution to the national economy.

## INTRODUCTION

### A. Project Background

The Sudan is one of the recipient countries of the UNIDO large-scale Regional Africa Hides and Skins, Leather and Leather Products Improvement Scheme, US/RAF/88/100, which is the largest IDF programme comprising several new elements in the so-called "programme approach". The other countries participating in the programme are Ethiopia, Kenya, Malawi, Tanzania, Zambia and Zimbabwe. The project in Somalia had to be stopped because of the war conditions in the country. The programme is a joint effort of three agencies with UNIDO as the executing agency and providing the total funding in association with FAO and ITC providing experts in their area of competence. The funds for the programme were contributed by Austria, Finland, France, Germany, Italy and Switzerland. The national project US/SUD/88/100 was financed from a generous donation from the Government of Italy.

The project idea was developed in 1984, after the recognition of the deteriorating position of the African leather industry, and the unexploited potential of the sector. During the Third Consultation of the Leather and Leather Products Industry meeting in Innsbruck, Austria, it was recommended that UNIDO should adopt an integrated programme approach in solving this sector's problems, including activities of the hides and skins, leather and leather products.

This was also elaborated in Alexandria, Egypt, at the Regional Meeting on Leather and Leather Products Industries in Africa in January 1987 as well as at the FAO Intergovernmental Sub-Group Meeting on Hides and Skins in Rome later that month. Government and industry representatives from the Sudan attended the Regional Meeting in Alexandria and it was recognized that in the Sudan, as in some other African recipient countries, underutilization of production capacities, low productivity and lack of training at the tanneries and leather products factories is prevalent and there is wide scope for becoming a major supplier of semi-processed leathers to the export markets and for increasing the production of leather products for the local market. That was and still is a vital need for the Sudanese leather industry.

The umbrella function of the regional project US/RAF/88/100 was designed to obtain maximum benefits from and utilize in the most economic way possible the international inputs for participating countries plus individual inputs from the national projects. This particular structure was justified on the grounds that:



- the national projects needed a number of common international inputs;
- there should be a maximum of flexibility in responding to individual national needs and inputs should be on call both on a timely and appropriate basis;
- inputs should be provided in a complementary way between countries and national institutions should not duplicate each other in their entirety;
- maximum utilization should be made of various national facilities to serve national and regional needs.

The overall management of the scheme and its inputs was undertaken by UNIDO headquarters in Vienna in coordination with the CTA of the regional project. He and his team were located at the Kenya Industrial Research and Development Institute/ Leather Development Centre (KIRDI/LDC) serving as the regional headquarters. The CTA supervised the activities of the international experts and subcontractor teams, as well as those of the national experts appointed in each of the national projects.

The regional programme's efforts focussed on the whole spectrum of upstream activities, such as supply of proper flaying and preservation techniques and introduction of simple grading for green and cured hides and skins in the selected target area in Kassala Province (see Annex 1), as well as the extensive training/demonstrations carried out in this area.

Through regional seminars and workshops at various national institutes information on the technological aspects and issues of the improvement scheme was disseminated on a regional and country level.

The project in the Sudan concentrated on direct assistance of experts, firstly, in hides and skins improvement sector and, secondly, in tanneries and leather products industries based on rehabilitation studies which defined specific outputs through the regional project US/RAF/88/100 and national project US/SUD/88/100, as well as the parallel project US/RAF/88/102, Regional Tannery Rehabilitation Scheme.

The Sudan received aid during 1963-1967, financed by UNDP and executed by FAO, for the establishment of the Leather Institute and for the Nyala pilot tannery, as an extension to it, in 1975. The results were the building of the institute and some of the slaughter slabs, as well as training of hides and skins improvement staff and tanning, shoe making and leather goods technicians. But this was not followed up since the early seventies, e.g. for lack of funds and staff motivation, also due to the administrative changes in the local government structure with lack of funds and appropriate expertise.

### B. Official arrangements

At the Alexandria meeting the Sudanese Government, represented by Leather Trading and Manufacturing Company Ltd. (LTMC), requested UNIDO assistance and participation in this regional scheme. The national project US/SUD/88/100 was approved by the Managing Director of LTMC on 10 October 1988 and by the UNIDO Project Review Committee on 27/1/1989. The project became operational in January 1990 and is scheduled to be operationally completed by end 1993.

The executing agency was UNIDO in cooperation with FAO and ITC. The Government of Sudan cooperating agencies were the Ministry of Industry (LTMC) and the Ministry of Agriculture, Natural Resources and Animal Resources (MANRAR).

### C. Financing

#### 1. UNIDO

Total contribution US\$ 401,828 including 13 per cent support costs, broken down in the project budget as follows:

		<u>Original</u>	<u>Adjusted</u>
		US\$	US\$
BL 15	Project travel	106,000	76,000
BL 16	Monitoring visits	3,000	3,013
BL 17	National Expert	72,000	83,330
BL 32	Study tours	14,000	14,000
BL 33	In-service training	60,000	20,000
BL 41-42	Equipment	78,000	148,000
BL 51	Sundries	11,000	
	Vehicle maintenance/petrol	<u>11,600</u>	<u>22,600</u>
	Total	355,600	366,943
	Excluding 13 per cent support costs		

The reasons for the adjustment were as follows:

- (a) Due to the late start of the project in the Sudan and suspension of the international experts' mission after the Gulf war the fielding of experts to the country was adjusted according to priorities.
- (b) As the in-service training was financed by the Government and equipment constituted a major need, funds were transferred from BL 33 and 15 to BL 41-42.

2. <u>Government</u>	<u>Proj.doc.</u> L.S.	<u>Actual</u> L.S.
(a) <u>MANRAR:</u> Personnel for hides & skins improvement	302,000	2,000,000*
(b) <u>Ministry of Industry:</u> Personnel (Secretary/Driver) & office for National Expert	49,000	360,000*
(c) <u>National Development Plan 91/92</u>	<u>—</u>	<u>600,000</u>
Total	351,000	2,960,000

\* Salaries increased since 1991.

#### D. Objectives of the project

##### 1. Development objectives

*To contribute to the improvement of the country's and region's economy, create new employment opportunities, improve export performance, increase the income of primary producers and provide the international leather and leather products markets with additional semi-processed raw materials and finished products.*

During the hides and skins improvement field work in Kassala Province the primary producers, mainly butchers in villages, increased their income through quality improvement, awareness of the value of hides and skins as by-products of the meat industry and knowledge of prices at the main markets in Omdurman and Wad Medani.

The tanneries' production was not increased despite the awareness raised by project activities in all aspects of the subsector. The objective not attained during project duration was the rehabilitation and privatization of the three parastatal large tanneries, the White Nile Co. Ltd., Gezira Tannery and Khartoum Tannery. The White Nile Co. Ltd. is now privatized and started working under new management; Gezira Tannery will be a joint venture between the Government of Sudan (40 per cent) and Dawoo Co. Ltd., Korea (60 per cent); Khartoum Tannery and Red Sea Tannery are in the process of privatization. The decrease in production due to increasing meat prices and competition from raw exports was an additional hindrance. On 13 May 1993 the export of raw hides and skins was banned, therefore, the other parts of the objective will be attained soon.

## 2. Immediate objectives

(a) *Establishment of 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.*

This was attained by providing staff with transport facilities and by hides and skins improvement work is activated in target area. General awareness of this issue was created in other areas and in the Government. Law revisions were started and will be finalized soon. The grading system developed by the regional project and other information greatly assisted all activities in this direction.

(b) *To act as catalyst to national authorities to introduce incentives for improved quality performance.*

Mechanized tanneries, most traders and exporters are paying higher prices for better quality hides and skins and it will be easier to initiate incentives after the export in the raw state has been banned as the Industry is more willing to promote quality improvement.

(c) *Rehabilitation of 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.*

This objective was not fully attained as due to the factors stated above under the development objective. However, SATA Co. Ltd. received spare parts worth US\$ 17,000 which improved productivity. The hides and skins improvement in the target area were supplied with flaying tools and equipment such as transport facilities, as well as with international and local expertise. Salim Tannery received three machines (fleshing, sammying/setting-out and staking).

Equipment for effluent treatment has been ordered for White Nile Co. Ltd. and Khartoum Tannery, which will alleviate the pollution problem and comply with the requirements of the sanitary authorities.

According to privatization and liberalization policies and rehabilitation plans this objective will be attained through project activities and inputs.

### **E. Training**

During the hides and skins improvement field work in Kassala Province the FAO hides and skin improvement expert, the national expert and counterpart staff from the Federal Hides and Skins Improvement Administration held several workshops in all towns and villages of the target area. This was attended by 68 participants from local government, technicians, butchers, flayers and traders. Training was carried out for all flayers (over 150) working in the slabs of target area as well as for the hides and skins merchants at their premises in correct preservation and sorting methods.

During the mission of the ITC marketing expert in February 1990 a seminar was held at the library of MANRAR in Khartoum, attended by 40 people from MANRAR, tanneries, the Leather Institute, the Ministry of Trade and Finance and the Ministry of Economic Planning and Investment, in which the expert elaborated on Sudan's potential of added value through utilizing available capacities at the tanneries, taking Afrotan as a model for rehabilitating large tanneries.

The finishing expert held a two-day lecture/demonstration on leather finishing attended by 18 managers and technicians from the tanneries (Annex 2).

The project also conducted a thirty-day training course on shoe design pattern making using a training kit developed by the Italian institute PISIE in cooperation with UNIDO. This training was given to 20 people from factories and units involved in leather footwear manufacture. In additional workshops some 40 more people were trained with this kit.

The project also cooperated in holding a two-day seminar on footwear manufacture organized by the UNIDO New Technologies Unit which was attended by fifteen participants from factories, the Ministry of Industry and the Industrial Development Bank of Sudan. The seminar was held at the Sudanese Industries Association's premises in Khartoum from 1-2 February 1993 and was followed up during 3-4 February by visits to two factories and two small manufacturing units in Khartoum State (Annex 4).

The Scientific International Committee of the Agency of Animal Wealth held a workshop on 6 May 1993 in El Sharga Hall, University of Khartoum, on the "Role of Hides and Skins and Leather in the Development of the Sudan Economy". The national expert participated in its organization and in the preparation of a paper on the potential and management of hides and skins improvement. Over 200 participants from

concerned ministries, tanneries, traders, veterinary staff and students took part in the workshop and all recommendations by the project and similar forums were adopted by the workshop. Also the national expert and project cooperating staff from the Federal Hides and Skins Improvement Administration also participated in the training courses for 60 veterinary assistants in hides and skins improvement held at the veterinary school and El Kaddaru Hygienic Meat and Training Institute.

A number of participants from the industry had the opportunity to attend the regional seminars organized by the regional project on different aspects of the leather industry (see Annex (5)).

#### **F. Equipment**

All purchased equipment was received and met specifications and requirements. Annex 5 shows the last property record forms.

Up till now only five motorcycles were transferred to Animal Resources (see Annex 6).

The equipment delivered to SATA Co. Ltd. and Salim Tannery falls under the arrangements for the "revolving fund" whereby the recipient company has to pay the value of the equipment in local currency to the fund, so that further hides and skins improvement activities in the country can be financed. The "revolving fund" is managed by the Sudanese Industries Association.

#### **G. Subcontracting**

The national project had no subcontract component, however, under the regional project US/RAF/88/100 the subcontractor Ewbank Preece Ltd., United Kingdom, was engaged for hides and skins improvement activities.

### **RECOMMENDATIONS**

1. **On the national level**
  - (a) Adequate funding should be secured to build up the hides and skins improvement facilities, slaughter places and curing facilities.
  - (b) Expedite and enforce the amendments of the hides and skins legislation.

(c) Set up hides and skins improvement departments at State level to include senior officers, inspectors and technicians at State capitals, provinces and councils according to production levels and ensure their motivation.

(d) Introduce incentive schemes based on quality grading for hides and skins and closely involve tanners in this. Strengthen the "revolving fund" through the introduction of special production and export levels for tanning industry. These measures are to support government efforts in hides and skins improvement.

(e) The Leather Institute should be strengthened under the new management IRCC and closely linked with the Sudanese Industries Association and Small Industries Associations so as to serve as an active development and training centre. Technical assistance and linkage with regional and international institutes should be sought.

(f) Improvement of statistics for hides and skins production should be linked with the livestock census expected to be carried out in 1994 and UNIDO and FAO assistance is to be sought.

(g) After the completion of privatization the available capacities in tanneries and footwear factories are to be utilized and management and financial problems, especially in foreign exchange, should be solved. Short-term training programmes are to be undertaken by the leather institute, especially for the leather products industries, to satisfy the local market and export.

(h) Within the frame work of "The Industrialization Year" the Government should endeavour to secure funds from donor countries, financing organizations, and UNDP Country Programme for the second phase national project US/SUD/92/200.

## 2. On the international level

(a) To increase the linkages with the leather subsector at the regional and international level, e.g. Preferential Trade Area (PTA), Arab Countries League (especially Morocco, Tunisia and Egypt). Associations and private companies should seek membership of international organization in the leather field.

(b) The Sudanese leather industry should acquire presence in important trade fairs and participate in seminars and workshops etc. in the leather field.

3. To international agencies

(a) Since the phase 1 programme was successful and a second phase would provide the vital assistance needed for the continued improvement of the Sudanese leather industry, every effort should be made to secure funding for the national project US/SUD/92/200 from the donor of phase 1, Italy, and other potential donor countries and financing agencies.

(b) Assistance is highly needed in the following areas:

- Statistics
- Planning for local training on short and long terms
- Leather finishing, machinery maintenance, effluent treatment and marketing
- Audio-visual material for training in all fields of the leather subsector
- Fellowships for generating staff for the industry.

(c) Linkage is to be established with UNDP programmes where possible.

## I. ACTIVITIES AND OUTPUTS

1. Policies and strategies

Project management and UNIDO consultants were supplied by the National Salvation Programme starting July 1990.

The experts and consultants held discussions with senior government executives and were supplied with legislation concerning the hides and skins improvement. The document produced by Messrs. D. Manly, marketing expert, and S.M. Kiruthu, leather consultant, was in line with national policies, especially on the issues of privatization and liberalization of trade.

2. Hides and skins improvement

(a) The FAO hides and skins improvement expert, Mr. E. Machanga, fielded in 1990 for two and a half months, worked mainly in the Eastern State target area's towns and villages in cooperation with the national expert and national counterpart staff. Seminars were held in each town, of which the largest in Kassala was addressed by the Governor of State.

(b) Awareness of the problems and the magnitude of losses were verified.

(c) The problems faced by the hides and skins improvement services at the different levels were addressed, including the supply of transport vehicles,



motorcycles, slaughterhouse equipment, pulleys for hoisting, as well as knives for flaying and ripping.

(d) Induction training was carried out with slaughterers, flayers, butchers, collectors and traders.

(e) Three Sudanese participated in the hides and skins improvement seminar held in Bulawayo, Zimbabwe, in November 1990, which was conducted by the FAO experts and experts from the subcontractor Ewbank Preece Ltd.

(f) Grading system: The "Guidelines for grading hides and skins by quality" prepared by the regional project were distributed to all concerned. They are easy to adopt and well presented and will replace the old grading systems applicable in the Sudan but not much adhered to. They will be the basis for incentives to flayers and purchasing by quality, and differentiated pricing will induce improvement in quality. The traders association, the general manager of Khartoum Tannery and the national expert are members of the committee dealing with this issue.

(g) A salt curing paper prepared by Mr. T. Devassy, the FAO expert fielded in Ethiopia, was translated by the national expert, including comments on bad practices, and distributed to the Hides and Skins Improvement Administration and tanneries etc. However, hides and skins improvement still needs much efforts on a continuous basis.

(h) Hides and skins improvement staff in the target area and elsewhere, as well as their top management, were made to recognize the importance of their work. Also staff working with the FAO expert obtained very good experience. Annex 8 lists the hides and skins improvement staff attached to project.

The hides and skins inspector supervising training joined Ethiopian counterparts in a study tour of hides and skins facilities in Kenya, Zambia and Zimbabwe and has benefited from the knowledge gained.

(i) During the project activities an incentive system was elaborated. In the early fifties a bonus used to be paid to flayers for first grade hides. Most probably after the ban of exports of raw hides and skins on 13 May 1993, the tanneries will push for incentives as it is vital for tanneries and the Sudanese Industries Association to play a role in improvement. MANRAR extends much effort in this direction and the Ministry of Industry is also ready to cooperate.

### 3. Improved statistical intelligence

The FAO hides and skins improvement expert prepared a form to be completed by the hides and skins staff to show the quality of production of collected hides and skins. This is not regularly collected. During the tripartite review meeting in August 1992, this output was rated as unsatisfactory for several reasons:

- even livestock numbers are estimated
- for various reasons it is difficult to obtain correct information from factories.

However, it is much hoped that the proposed UNIDO project for statistics will materialize in the Sudan and the other four selected countries and to help in solving this issue. Also Animal Resources is planning a livestock census and it is anticipated that production of hides and skins will be linked with this.

### 4. Improved quality and increased quantity of raw hides and skins:

(a) Hides and skins quality in the target area improved due to supply of tools and equipment for slaughtering slabs. The training and extension services resulted in making the concerned people aware of performing their duties according to prevailing laws. Solving their transportation problem as well as assistance and supervision from project experts were decisive factors in this improvement.

The Animal Resources forwarded an ambitious national development plan for 1993/96 for hides and skins improvement and slaughter-slab innovation, which will be a good support in the planned second phase of the project.

(b) Hides and skins quantity: In the Sudan the problem of non-collection is estimated to be some 5-8 per cent during the rainy season when transportation is disturbed. Therefore, a quantity increase cannot be verified. There are also indications of a decrease in production, especially for sheep particularly due to the rising prices of meat and mutton. At the same time it is noted that new markets are opened for slaughtered meat, going side by side with the export of animals on hoof to traditional markets.

(c) Through continued efforts from the Government, associations and foreign assistance a quality and quantity increase can be achieved as two tanneries are now privatized and rehabilitated through development plans and bilateral agreements.

5. Rehabilitation of selected tannery and shoe factory:

(a) White Nile Co. Ltd. was selected as a target for rehabilitation but due to the delay of civil works (finished in August 1992) the idea of supplying finishing equipment to replace fire-damaged one was abandoned.

(b) However, the SATA Co. Ltd. shoe factory received spare parts worth US\$ 17,000 against pay-back to be spent on training, and as a result the company could increase its production. A footwear industry consultant was fielded for one month and presented a rehabilitation study for the factory.

(c) Salim Tannery received three machines worth US\$ 147,000.00 from project US/RAF/88/102 which is to be paid-back in local currency to the revolving fund. This places the company in a good position to start the processing of skins.

(d) International experts in leather finishing, footwear, tanning, rehabilitation, maintenance, effluent treatment and marketing visited all tanneries and shoe factories and offered good advice and expertise in their respective fields. Annex 9 lists the international staff fielded in the Sudan.

6. The national expert participated in all activities during project life. He was a member of the following committees:

- Revision of legislation for hides improvement, Animal Resources;
- Committee for the national comprehensive strategy for the leather subsector;
- operations chamber for the leather subsector, Ministry of Industry;
- working group for the workshop on the role of the leather subsector in the Sudan's economic development;
- Project steering committee.

In all these activities the project's findings and recommendations were presented and reflected and the majority of them were adopted as all the members are recipients of project activities, i.e. Ministry of Economic Planning and Investment, MANRAR, Federal Hides and Skins Improvement Administration, LTMC, the Sudanese Industries Association, and the Chairman is from the Ministry of Industry.

## II. ACHIEVEMENTS

### 1. Policies and strategies

The policies and strategies for the subsector were improved. Two of the large tanneries were privatized; White Nile Co. Ltd. in April 1992 and Gezira Tannery. SATA Co. Ltd. and Khartoum Tannery and Red Sea Tannery are in the process of privatization. Also trade liberalization will support the success of the subsector. As of 13 May 1993 the export of raw hides and skins is banned by the Government and this will place the local industry in a better position to contribute to the country's economy.

The national comprehensive strategy for the subsector emphasizes the following:

- Increase of livestock population;
- Increase in export of meat rather than live animal;
- Establishment of modern Abattoirs as well as collection and preservation infrastructure;
- Increase capacity utilization in tanneries and footwear factories;
- Diversification of leather production ;
- Improvement and development of artisan tanneries and small-scale footwear units;
- Utilization of tannery by-products
- Development of leather footwear industry for export to overseas markets and to satisfy local needs;
- Encouragement and development of tannery chemical industries;
- Environment protection from pollution by the leather industry.

A national scheme for hides and skins improvement and for the rehabilitation of slaughter slabs was created.

Better staffing and management is considered a priority for the Leather Institute, which is for the first time under the Ministry of Industry.

### 2. Hides and skins improvement

The assistance in the target area Kassala Province was well integrated and the Federal Hides and Skins Improvement Administration benefited in the form of expertise, vehicles, motorcycles, bicycles, proper flaying and ripping knives, and pulleys. From the local development plan some roofing material and posters were provided.

Marketing, tannery and finishing experts as well as other project staff elaborated on the role of hides skins improvement to utilize the potential in the subsector and

increase the marketing capabilities. Experience and information from other countries especially in legislation and grading were utilized in the new legislation being processed.

The demonstrations of correct procedures for butchers, flayers and traders lead to a good progress in quality grading and an increase of 50 per cent of first grade green hides have been reported in slaughterhouses in New Halfa and Gadarif.

Data collection is undertaken on the format designed by the FAO expert and is the best way to establish statistics.

Veterinary staff, traders, tanners, politicians, economists and local government staff were made aware of the industry's potential and much support is given to the hides and skins improvement.

The national pilot improvement scheme was successful in the target area and the Federal State Governments expressed willingness to establish and effectively improve the service country-wide.

### 3. Incentives

The tanneries expressed their readiness to participate in the introduction of incentives through their agents and purchase by quality.

### 4. Factory rehabilitation

Tanneries and factories received expertise and training which will be of great benefit after the completion of the rehabilitation and privatization.

The rehabilitation already done at the Salim Tannery is an achievement and helped the company, especially after the ban of export of raw hides and skins. White Nile Co. Ltd. and Khartoum Tannery will benefit after the installations of equipment supplied by project for the rehabilitation of the common effluent treatment plant. Other tanneries will benefit from the establishment of the "revolving fund" for hides and skins improvement and other activities in the subsector. For SATA Co. Ltd. the delivery of spare parts had a positive impact on production.

All factories gave positive reports about the project's activities. Based on the beneficial result achieved so far, the Sudanese Industries Association approached the Italian Embassy in cooperation with the UNIDO Country Director about financing phase 2 of the project so as to continue UNIDO efforts and assistance.

### III. UTILIZATION OF PROJECT RESULTS

Project activities and results were used in various aspects, policies and strategies, hides and skins improvement programmes and product quality improvement, and will be enhanced in a second phase both of the regional project and the Sudanese national project.

### IV. CONCLUSION

The Sudan has a great potential in the leather industry and this indigenous resource has to be mobilized to serve the development of the country.



## ANNEX 2

## ATTENDANCE OF FINISHING LECTURES

18 AUGUST 1991: FINISHING LECTURE

19 SEPTEMBER 1991: FINISHING DEMONSTRATION

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IBRHAIM SID AIMED	KHARTOUM TANNERY
ABDALL ADAM BESHIR	"
OSMAN ELKEIR SABIL	"
HELEETI ALDAWI ABDALLA (MRS.)	"
TAG ELSIR MOHAMED ALI	"
SAYED IDREES ALSAYED	"
MOHAMED SAYED DAWA ELBIET	"
ABDALLA BAKHEIT OSMAN	GEZIRA TANNERY
OSMAN AIMED SIDDIQ	"
ATIA AIMED MOHAMED	"
SALAH ABDALL AWAD SALEM	SALEM TANNERY
KAMAL ABD ELWAHAB	"
MUSA IBRAHIM	"
ALFATIH MUSTAFA ABU RAFAD	WHITE NILE CO. LTD.
GASIM MOHAMED ELAMIN ELGAL	HSLTD
ABD ELGADIR AORNASIR	"
MOHAMED GALAL EDLIN GIRGAWI	"
SALAH HAMID OSMAN	"
ABASS MUSTAFA CAMIL	"
ABD ELLATIF MOHAMED ALI LUTFI	"



## ANNEX 3

**LIST OF PARTICIPANTS  
FOOTWEAR DESIGN AND PATTERN MAKING COURSE  
5/12/92--24/1/1993**

<u>NAME</u>	<u>FACTORY/WORKSHOP</u>
1. MUTASIM ABDEL RAHMAN EED ELTAYEB	SATA
2. SALAH MAHMOUD SULIEMAN	"
3. ABDALLA AMARA ABDALLA	ARTISAN WORKSHOP
4. HASSAN MUBARAK EL FAKI	"
5. ALNAIM MOHAMED MOHAMED	"
6. AWADALLA AMARA ABDALLA	"
7. NABEEL ABDAHADI	"
8. ABDELLATIF AHMED	"
9. ABBAS ABDALLA	"
10. ABD ELRAHMAN MUSTAFA	"
11. KHALID MOHAMED ADAM	"
12. AHMED IBRAHIM MOHAMED	"
13. FATAH ELRAHMAN MOHAMED	"
14. HIGAZI ELOBEID	"
15. KHIDIR ABDELMULA	"
16. MUBRAK ABDEL ELHAMEED	"
17. ADIL MOHAMED AHMED	"
18. KAMAL SHAMS ELDIN	"
19. SALAH ABD ELAZIZ	"
20. ALAMIN EL HUDA ELFADIL	"

This was organized and financed by the Ministry of Industry, the Leather Institute, Sudanese Industries Association and UNIDO Project US/SUD/88/100.

## ANNEX 4

**LIST OF PARTICIPANTS  
FOOTWEAR MANUFACTURING SEMINAR –KHARTOUM  
1-2 FEBRUARY 1993\***

<u>NAME</u>	<u>COMPANY/UNIT</u>
1. YOUSIF ADAM YOUSIF	SATA LTD
2. IBRAHIM YOUSIF HAMED	" "
3. MOHAMED EL TIGANI HILAL	HILAL FOOTWEAR CO. LTD
4. ELTAYEB MOHAMED A/MAHMOUD	KHYBER LEATHER PRODUCTS CO.
5. ABDEEN SAAD ELDIN	HIND FOOTWEAR WORKSHOP
6. ABD ELSALAM HANAFI GAD	ABU GAD FOR SHOES
7. KHALAFALLA ELSEHIKH TALHA	TOMO SHOES CO.
8. MAHADI MOHAMED ABU BAKER	ASBAB ELKHEIR CO.
9. ABD ELMONEIM YOUNIS	FOOTWEAR CONSULTANTS
10. MOHAMED WIDTALLA MOHAMED	MINISTRY OF INDUSTRY
11. HASSAN OSMAN AHMED	SMALL SCALE INDS. MIN. OF IND
12. MS. NADIA MUZZAMIL ABBAS	IRCC MINISTRY OF INDUSTRY
13. MOHAMED EL HAG AMARA	INDUSTRIAL DEVELOPMENT BANK OF SUDAN
14. AHMED HAG ELSHIEKH ABBO	UNIDO NATIONAL EXPERT

\*\* Regional Seminar series IDDA in cooperation with UNIDO's New Technologies Unit and the UNIDO regional project US/RAF/88/100 and the national project US/SUD/88/100.

## ANNEX 5

**SUDANESE PARTICIPANTS  
IN THE REGIONAL SEMINARS/WORKSHOPS/STUDY TOURS**

1. **UNIDO REGIONAL HIDES & SKINS IMPROVEMENT SEMINAR**  
LOCATION:  
 BALAWI ZIMBABWE  
DATE:  
 18-22 AUGUST 1990  
NAME OF PARTICIPANTS AND ORGANIZATION  
 A: DR. ISMAIL YOUSIF MOHD. DIRECTOR OF HIDES & SKINS IMPROVEMENT  
 B: DR. KHALIFA MOHAMED EL HAG - HIDES OFFICER  
 C: AHMED H. ABBO, UNIDO NATIONAL EXPERT
  
2. **UNIDO REGIONAL MACHINERY MAINTENANCE SEMINAR**  
LOCATION  
 ADDIS ABABA - ETHIOPIA  
DATE:  
 8-12 OCT. 1990  
NAME OF PARTICIPANTS AND ORGANIZATION  
 A: ATIA AGEEB LUNDI - KHARTOUM TANNERY  
 B: MUIWIAH ABDALLA OSMAN - WHITE NILE TANNERY  
 C: YOUSIF IBRHAIM BABIKER - GEZIRA TANNERY
  
3. **UNIDO REGIONAL SEMINAR LEATHER TANNING**  
LOCATION:  
 NAIROBI - KENYA  
DATE:  
 18-13 APRIL 1991  
NAME OF PARTICIPANT AND ORGANIZATIONS:  
 A: ABDALLA ADAM BASHIR - KHARTOUM TANNERY  
 B: MAGDI YOUSIF GAD - AFROTAN  
 C: IDDRISS MUKHTAR IDDRISS - GEZIRA TANNERY  
 D: MOHAMED ALI MAGZOUN - WHITE NILE TANNERY  
 E: SALAH ABDLLA EL AWAD - SALIM TANNERY
  
4. **UNIDO REGIONAL SEMINAR LEATHER FINISHING**  
LOCATION:  
 NAIROBI - KENYA  
DATE:  
 15-19 APRIL 1991  
NAME OF PARTICIPANTS AND ORGANIZATION  
 A: GASIM MOHAMED ELGALA - LEATHER INSTITUTE  
 B: SIR EL KHATIM MOHAMED - WHITE NILE TANNERY  
 C: OSMAN EL KHEIR - KHARTOUM TANNERY  
 E: SALAH ABDALLA HAMID - SALIM TANNERY  
 F: S. RAO - AFROTAN

5. UNIDO REGIONAL SEMINAR POLLUTION CONTROL IN LEATHER INDUSTRY  
LOCATION:  
 NAIROBI - KENYA  
DATE:  
 8-11 JUNE 1992  
NAME AND ORGANIZATION OF PARTICIPANTS:  
 A: IDDESS MUKHTAR - WHITE NILE TANNERY  
 B: SALAH ABDALLA ALAWAD - SALIM TANNERY  
 C: AHMED H. ABBO - UNIDO NATIONAL EXPERT.
6. MARKENDALE TANNERY MACHINERY SEMINAR  
LOCATION:  
 ITALY  
DATE:  
 NOV. 1991  
NAME AND ORGANIZATION OF PARTICIPANTS:  
 A: MUAWAIA MOHAMADAN MUSTAFA - WHITE NILE TANNERY  
 B: EL KHALIAIFA AHMED IBRHAIM - KHARTOUM TANNERY
7. UNIDO REGIONAL LEATHER GOODS SEMINAR  
LOCATION:  
 MOROGRO - TANZANIA  
DATE  
  
NAME OF PARTICIPANTS AND ORGANIZATION  
 A: MOHAMED GELAL EL DIN GAERGAWE - LEATHER INSTITUTE  
 B: OSMAN SAAD OSMAN - ALASEMI FIBER AND PLASTIC CO.
8. FAO-ECDC WORKSHOP LEATHER TRADE  
LOCATION  
 BULAWAYO - ZIMBABWE  
DATE  
 29 JULY-2 AUGUST 1991  
NAME OF PARTICIPANTS AND ORGANIZATION  
 A: PROF. M.S. HARBI - ANIMAL RESOURCES  
 B: A. H. ABBO - UNIDO NATIONAL EXPERT
9. STUDY TOURS HIDES IMPROVEMENT FACILITIES  
LOCATION  
 KENYA, ZAMBIA, AND ZIMBABWE  
DATE:  
 5-10 --3/1991  
NAME OF PARTICIPANTS AND ORGANIZATION  
 A: ABDEL AZIZ KHALIFIA - ANIMAL RESOURCES.

## 10. STUDY TOURS FOOTWEAR FACTORIES

LOCATION

BULAWYO - ZIMBABWE

DATENAME OF PARTICIPANTS AND ORGANIZATION

- A: ABDEEN SAAD EL DDIN ABDIN - HAMD WORKSHOP
- B: MAHDI MOHAMED ABBUBAKER - ASBAB EL KHEIRIA CO.
- C: YASSIR ELTIJANI HILAL - HILAL FOOTWEAR CO.

## ANNEX 6

01-Jun-93

- 1 -

Project Number: ES/SUD/88/100

Eq. No.	Equipment denomination	Type	Supplier	HQ. purchase	LOC	Delivery date	P/O or MOD No.	Estimated cost	P/O value	Reserv/ Overexp.	Remarks
<b>T O T A L</b>								127,492	114,245	(533)	
85/1	Suzuki Drive	27413	petrol	LHD	HQ	ENDSEP85	15-9-0890 V	7,100	6,786	324	1 piece
	Toyota drive	LH106	PRMS	diesel	HQ	ENDSEP85	15-9-0890 V	12,500	12,765	(265)	1 piece
	Ends motorbikes	133	CM		HQ	ENDSEP85	15-9-0882 V	8,500	10,165	(1,665)	15 pieces
85/2	Crash helmets	Steffe	(Italy)		HQ	ENDSEP85	15-9-1167 V	320	319		15 pieces
85/3	VIDEO CAMERA + ACCESSORIES				HQ	ENDDEC85	15-9-1456 V	1,670	3,435	(1,765)	
	VIDEO CASSETTE RECORDER				HQ	ENDDEC85	15-9-1456 V	460	0	460	
	COLOR TV + ACCESSORIES				HQ	ENDDEC85	15-9-1456 V	600	0	600	
	SLIDE PROJECTOR				HQ	ENDDEC85	15-9-1461 V	350	1,152	(802)	
	OVERHEAD PROJECTOR				HQ	ENDDEC85	15-9-1461 V	350	0	350	
96/1	MAGAZINE LEATHER	SUBSCRIPTION			HQ		15-0-468 R	120	120		
96/2	MAGAZINE LIZ NEWS				HQ			20			
96/3	TACKLE ONE TON CAPAC	KENNEDY	INTER.		HQ	ENDSEP85	15-0-1048 V	2,500	1,269	1,231	
96/4	FLAYING KNIVES	TOOL	BULAWAYO		HQ	ENDSEP/GCT85	15-0-1043 V	600	817	(217)	
	RIPPING KNIVES				HQ	ENDSEP/GCT85	15-0-1043 V	500	0	500	
	SHAPPENING				HQ						CANCELLED
96/5	NASHUA COPIER				lc		19-0-09215 V	1,965	3,345	(1,380)	
	OLYMPIA BILINGUAL				lc		19-0-09215 V	1,380	0	1,380	
96/6	PORTABLE GENERATOR	TOOL	QUIP		HQ	ENDDEC90	15-0-1507V	1,500	942	558	
96/7	SGPARI DFF				HQ	DEC90	15-0-1532V	2,000	1,046	954	
	TRIATIX 80				HQ	DEC90	15-0-1532V		0	(0)	
	DECATIX				HQ	DEC90	15-0-1532V		0	(0)	
	TEIATIX LS				HQ						
96/8	SPARE GENEL PRESS	RYTA	ENG.	CANADA	HQ	ENDMAR91	15-1-0433V	7,629	7,630	(1)	SATA SHOE FACTORY
96/9	SPARE REGENTA H/C	LENA	GERMANY		HQ	BRECHIDJUN91	15-1-0471 V	7,073	7,120	(47)	SATA SHOE FACTORY
96/10	SPARE BVH PRESS	WEGSCHE			HQ	ENDAPR91		2,055	2,068	(13)	SATA SHOE FACTORY
91/1	international leather guide				bq		15-1-4041R	120	120		FOR WATIP ABBO
91/2	chain hoist	KENNEDY			bq	ENDNOV91	15-1-1121V	1,250	2,533	(1,283)	
	pulley block	KENNEDY			bq	id	15-1-1121v	1,250	0	1,250	
91/3	belt	WEG			bq	ENDDEC91	15-1-1126V	200	820	(620)	
	photocopy paper				bq			300			
	toner	WEG			bq	ENDDEC91	15-1-1126V	400	0	400	
91/4	motorcycles	KISSRI	TRADING		bq	ENDJAN92	15-1-1118V	12,000	14,359	(2,359)	
	helmets	ASORBUS			bq	ENDOCT91	15-1-1120V	410	421	(11)	
	screens	ASORBUS			bq	id	15-1-1120V	140	0	140	
91/5	market news subscription	GATT			bq		15-1-4176R	250	250		FOR WE ABBO
91/6	exper.drum	RIAT			bq	MARCH91	15-1-1612V	13,500			FOR WE ABBO
91/7	bicycles	ACMINODE			bq	ENDDEC91	15-1-1491V	2,000	1,813	187	FOR WE ABBO
91/8	ripping knives	TOOL	MAKING		bq	FEB92	15-1-1637V	640	2,025	(1,385)	
	flaying knives	id			bq	id	15-1-1637v	1,240	0	1,240	
91/9	spares for shiving n/c	TORIBELLI			bq	FEB92	15-2-0296V	330	330		
91/10	spares for pfall n/c	PFAPP			bq	FEB92	15-2-0289V	500	625	(125)	for leather institute/kha
91/11	spares for adler sewing n/c	BURKOPP			bq	MARCH92	15-2-0309V	1,200	2,772	(1,572)	for leather institute/kha
91/12	spares splitting n/c	CANOCA			bq	JAN.92	15-1-1642V	400	387	13	for leather institute/kha
92/1	TOYOTA	TOYOTA			HQ	JULY92	15-2-0499V	14,000	12,527	1,473	
	SPARES FOR TOYOTA	TOYOTA			HQ	ENDJULY	15-2-0538V	3,000	1,775	1,225	
92/2	COPIER	WEG			HQ	BRECHAY92	15-2-0502V	1,600	1,455	145	

ALLOTMENT: Total:- US\$ 144,658; 89/90/91: US\$ 178,767; 92: \$8 18,755.93: \$17,146

01-Jan-93

- 2 -

Project Number: US/SUD/88/100

Req. No.	Equipment denomination	Type	Supplier	HQ. purchase	LOC date	Delivery	P/O or BCD No.	Estimated cost	P/O value	Reserv/ Overexp.	Remarks
	TOWER		WEG	HQ	id		15-2-0502V	1,200	0	1,200	
93/001	sewing m/c		JUEI	hq	JUNE 93		15-3-0502V	12,000	12,634	(634)	SHALL SCALE SHOE IND ASSO
93/002	Leather journal		WENEAGAARD	hq			15-3-4017E	120	138	(18)	FOR ABBO
93/003	market news service		UNCTAD/GATT	hq			15-3-4016E	250	280	(30)	FOR ABBO



## TRANSFER OF TITLE

ANNEX 7

## UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

VIENNA INTERNATIONAL CENTRE

P.O. BOX 300, A-1400 VIENNA, AUSTRIA

TELEPHONE: 211 310 TELEGRAPHIC ADDRESS: UNIDO VIENNA TELEX: 135612 uno a FAX: 232156

Reference: GSD/INV/jc

12 May 1993

TRANSFER OF TITLE OF EQUIPMENT  
FROM THE UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION  
TO THE ANIMAL RESOURCES MINISTRY OF THE SUDAN

WE CERTIFY THAT THE QUANTITIES OF NON-EXPENDABLE EQUIPMENT RECEIVED, LESS THE QUANTITIES OF NON-EXPENDABLE EQUIPMENT WRITTEN-OFF, REFLECT THE PHYSICAL COUNT OF THE ITEMS ON HAND. THE UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION HEREBY TRANSFERS, AND THE ANIMAL RESOURCES MINISTRY OF THE SUDAN HEREBY ACCEPTS, FULL TITLE AND OWNERSHIP OF THE NON-EXPENDABLE EQUIPMENT LISTED IN THE ATTACHED NON-EXPENDABLE PROPERTY CONTROL RECORD FORMS HAVING A TOTAL VALUE OF US\$ 8,937.- . TRANSFER OF TITLE AND OWNERSHIP IS MADE ON THE UNDERSTANDING THAT SUCH EQUIPMENT SHALL BE SOLELY USED FOR THE PURPOSE, IN THE MANNER AND AT THE PLACE FOR WHICH IT WAS PROVIDED.

THE EQUIPMENT REPRESENTS ASSISTANCE OF THE UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION UNDER UNITED NATIONS INDUSTRIAL DEVELOPMENT FUNDS TO THE ANIMAL RESOURCES MINISTRY OF THE SUDAN IN CONNEXION WITH THE PROJECT "HIDES AND SKINS, LEATHER AND LEATHER PRODUCTS IMPROVEMENT SCHEME, US/SUD/88/100.

Ministry of Agriculture & Animal Resources  
OF THE SUDAN

Director, National Hides & Skins Imp.

Dr. Nawzi Gubeir

By N. G. Nawzi  
Authorized Representative

Date: 27/5/93

UNITED NATIONS INDUSTRIAL  
DEVELOPMENT ORGANIZATION

By

Authorized Representative  
D. Gardellin  
Director

General Services Division  
Department of Administration

Date: 12 May 1993  
Vienna, Austria

UNITED NATIONS INDUSTRIAL  
DEVELOPMENT ORGANIZATION

UNIDO COUNTRY DIRECTOR  
MASSIMO GARZELLI

By

Authorized Representative

Date: 27/5/93



Project Number  
US/SUD/88/100

**UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION  
NON-EXPENDABLE PROPERTY CONTROL RECORD**

Page No. : 1  
Period Ending : DATE OF TRANSFER

Country : SUDAN

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

Purchase Order Number	Item No.	Description	Qty. Ord.	Stock-on-hand in US\$	Received			Cond.	Qty On Hand	Remarks
					Qty.	M	Y			
15-9-00888	1	"HONDA" MOTORCYCLE MODEL: XL185SD DK CHASSIS/ENGINE NOS.: L 185 S-5410178, L 185 SE-5425288/ L 185 S-54106651, L 185 SE-5425938/ L 185 S-5425287, L 185 SE-5410181/ L 185 S-5410186, L 185 SE-5425286/ L 185 S-541088, L 185 SE-5425285.	5	8,937.00	5	04	90			

Project Number  
US/SUD/88/100

UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION  
NON-EXPENDABLE PROPERTY CONTROL RECORD

Page No. : 2

Period Ending : Date of transfer

Country : SUDAN

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

We certify that the quantities of non-expendable equipment received, less the quantities of non-expendable equipment written-off, reflect the physical count of the items on hand at the date of transfer. Custodial responsibility of the listed items is accepted herewith.

Resident representative

*[Handwritten Signature]*  
signature

Date 27/5/93

Government counterpart

*N. G. Nassei*  
signature

Date 27/5/93

## ANNEX 8

## GOVERNMENT PROJECT-RELATED PERSONNEL

<u>NAME</u>	<u>POST TITLE</u>	<u>START</u>	<u>END</u>
<b>1. <u>ANIMAL RESOURCES/HIDES IMPROVEMENT:</u></b>			
DR. ISMAIL YOUSIF HAMED	DIR.OF ARV.	1 JAN. 90	AUG. 91
DR. NAMAI JUBIER NAWAI	" " "	AUG. 91	
DR. KHALIFA MOHD. EL HAG	HIDES INSP.	MAY 96	JAN. 92
	8 COUNTERPARTS OF FAO EXP.		
ABDEL AZIZ KHALIFA	SEN.OFF.	JAN. 90	
BESHIR ABDALLA EL NUR	DRIVER	FEB. 90	
<b>2. <u>ANIMAL RESOURCES EASTERN REGION</u></b>			
DR. MOHAMED SULIEMAN	VET.OFF.	NOV. 90	OCT. 92
MEKKI ABDEL HALEEM	SEN.HIDES	MAY 90	JULY 91
	OFF./KASSALA		
MOHAMED MOHAMMED EL HAG	SEN.HIDES	MAY 90	JULY 91
	OFF./NEW HALFA		
OMER IDDRIS	HIDES OFF./	MAY 90	JULY 91
	KASSALA		
ISMAIL HASSAN SIDDIQ	HIDES OFF./	MAY 90	
	NEW HALFA		
ISMAIL AHMED RAHMAH	HIDES OFF./	JAN. 93	
	GADARIF		
<b>3. <u>MINISTRY OF INDUSTRY - LTMC</u></b>			
MS. AISHA ISHAG	SECR./TYP.	SEPT. 90	AUG. 92
MS. FATIMA NEEMA KHARASH	"	AUG. 92	
HUSSEIN SULIEMAN HUSSEIN	DRIVER	APRIL 90	

## ANNEX 9

## LIST OF INTERNATIONAL STAFF ON MISSION IN THE SUDAN

<u>POST NO</u>	<u>TITLE</u>	<u>NAME/NATIONALITY</u>	<u>DURATION</u>
11-02	H/S IMPROVEMENT EXPERT	E. M. MACHANGA (KEN)	6/90-8/90
11-04	TANNERY EXPERT	MR. MARZO (SPAIN)	30/9/91 - 15/11/91
11-05	LEATHER FINISHING	H. ECKERT (GER)	12/9/91 - 12/9/91
11-06	MACHINERY MAINTENANCE	A. RONGRED (NOR)	5/7/90 - 13/7/90
"	"	A. ZINK (PERU)	17/5/92 - 11/7/92
11-08	FOOTWEAR EXPERT	J. BARADAT (FRA)	2/8/90 - 11/8/92
11-09	MARKETING EXPERT	D. MANLY (UK)	10/2/90 - 24/2/90
11-10	EFFLUENT TREATMENT	G. CLONFERO (ITALY)	13/9/91 - 20/9/91
11-55	CONSULTANTS:		
	FOOTWEAR	S. LINZ (GER)	1/5/91 - 30/5/91
"	"	"	4/9/92 - 4/10/92
	LEATHER INDUSTRY	A. LESUISSE	1/5/90 - 9/5/90
"	"	"	10/5/91 - 17/5/91
	LEATHER INDUSTRY	S. KIRUTHU (KEN)	23/7/92 - 30/7/92
	WOMEN IN DEVELOPMENT	H. CHIGUDU (UGA)	26/11/91 - 24/12/92
	UNIDO OFFICER	J. BERG (FIN)	18/11/89 - 20/11/89 11/12/90 - 13/12/90 16/8/91 - 20/8/91 9/12/92 - 15/12/92

<b>Project Number/Amendment</b> US/SUD/88/100 G	<b>Status</b> O	<b>Country</b> SUDAN AFRICAN ARAB STATES/LDC	<b>Pad Date Printed</b> 93-04-08	<b>Programme Element</b> J 13104	<b>P.C.A. Name</b> MS. BULL
--	--------------------	--	-------------------------------------	-------------------------------------	--------------------------------

<b>Project Title</b> NATIONAL HIDES AND SKINS, LEATHER AND LEATHER PRODUCTS IMPROVEMENT SCHEME - EAST AFRICA (ALSO REF. US/RAF/88/100)	<b>Backstopping Officer Name:</b> MS. CALABRO
	<b>Multi-Fund Projects:</b>

<b>Authority</b> REVISION REQUEST 30/3/1993	<b>Remarks</b>
<b>IDF:</b> 1 <b>R.B:</b> <b>Type:</b> <b>IGO Code:</b>	
<b>TSS-AOS:</b> <b>Donor:</b> ITA <b>COB Date:</b>	

SIGNED ORIGINAL IN DA/FS/FMTC PROJECT FILE

Medium Term Plan:

Budget Line	Functional Title	Total	prior to 1992	1992	1993	1994	1995	Subseq.
15-00	PROJECT TRAVEL	\$ 69,332	46,403	15,610	7,319			
16-00	OTHER PERSONNEL COSTS	\$ 3,013	3,013					
17-01	NAT EXP. LEATHER INDUSTR	\$ 85,330	51,496	13,200	20,634			
		WM. 48.0	24.0	12.0	12.0			
18-00	SURRENDER PY OBLIGS	\$ 21,912-	9,009-	12,903-				
1X-XX	SUB-TOTAL	\$ 135,763	91,903	15,907	27,953			
		WM. 48.0	24.0	12.0	12.0			
32-00	STUDY-TOURS/UNDP GROUP T	\$ 41,884	15,091	8,777	18,016			
33-00	IN-SERVICE TRAINING	\$ 6,150	6,150					
38-00	SURRENDER PY OBLIGS	\$ 5,465-	4,897-	568-				
3X-XX	SUB-TOTAL	\$ 42,569	16,344	8,209	18,016			
41-00	EXPENDABLE EQUIPMENT	\$ 20,029	12,037	5,438	2,554			
42-00	NON-EXPENDABLE EQUIPMENT	\$ 131,409	99,158	17,660	14,591			
48-00	SURRENDER PY OBLIGS	\$ 6,770-	2,428-	4,342-				
4X-XX	SUB-TOTAL	\$ 144,668	108,767	18,756	17,145			

ANNEX 10  
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Project Number/Amendment: US/SUD/88/100 G

Pad Date printed: 93-04-08

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Budget Line	Functional Title		Total	Prior to 1992	1992	1993	1994	1995	Subseq.
51-00	SUNDRIES	\$.	32,600	15,977	9,954	6,669			
99-99	PROJECT TOTAL	\$. WM.	355,600 48.0	232,991 24.0	52,826 12.0	69,783 12.0			

PROJECT TITLE NATIONAL HIDES AND SKINS, LEATHER AND LEATHER PRODUCTS  
IMPROVEMENT SCHEME - EAST AFRICA (ALSO REF US/RAF/88/100)

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

BUDGET LINE	DESCRIPT	TOTAL ALLOTMENT		CURR YR PHASING		PRIOR YEAR EXP		CURR YR DISB		BAL CURR YR OBL		COMMITTED FUTURE YEARS (11)	BALANCE		UNCOMMITTED BALANCE (13)	YTD IMPL VERSUS PHASING (14)
		M/M (1)	DOLLARS (2)	M/M (3)	DOLLARS (4)	M/M (5)	DOLLARS (6)	M/M (7)	DOLLARS (8)	M/M (9)	DOLLARS (10)		(12) (4-8-10)	(13) (2-6-8-10-11)		
15-00		0 0	69.332	0 0	7.319	0 0	0	0 0	0	0 0	0	0	7.319	69.332		
15-01		0 0	0	0 0	0	0 0	62013	0 0	0	0 0	2500	0	2.500-	64.513-		
15-99	TRAVEL	0 0	69.332	0 0	7.319	0 0	62013	0 0	0	0 0	2500	0	4.819	4.819	34	%
16-00		0 0	3.013	0 0	0	0 0	0	0 0	0	0 0	0	0	0	3.013		
16-12		0 0	0	0 0	0	0 0	3013	0 0	0	0 0	0	0	0	3.013-		
16-99	OTHER PERS	0 0	3.013	0 0	0	0 0	3013	0 0	0	0 0	0	0	0	0		
17-01		48 0	85.330	12 0	20.834	36 0	64696	10 0	1983-	2 0	7310	0	15.307	15.307	25	%
17-99	NATIONALS	48 0	85.330	12 0	20.834	36 0	64696	10 0	1983-	2 0	7310	0	15.307	15.307	25	%
18-00		0 0	21.912-	0 0	0	0 0	0	0 0	0	0 0	0	0	0	21.912-		
18-05		0 0	0	0 0	0	0 0	21533-	0 0	0	0 0	0	0	0	21.533-		
18-08		0 0	0	0 0	0	0 0	210-	0 0	0	0 0	0	0	0	210-		
18-07		0 0	0	0 0	0	0 0	169-	0 0	0	0 0	0	0	0	169-		
18-99	SUR PY OBL	0 0	21.912-	0 0	0	0 0	21912-	0 0	0	0 0	0	0	0	0		
19-99	PERSONNEL	48 0	135.783	12 0	27.953	36 0	107810	10 0	1983-	2 0	8810	0	20.126	20.126	26	%
32-00		0 0	41.884	0 0	18.016	0 0	0	0 0	0	0 0	0	0	18.016	41.884		
32-01		0 0	0	0 0	0	0 0	4635	0 0	0	0 0	0	0	0	4.635-		
32-02		0 0	0	0 0	0	0 0	10456	0 0	0	0 0	0	0	0	10.456-		
32-03		0 0	0	0 0	0	0 0	5316	0 0	0	0 0	0	0	0	5.316-		
32-04		0 0	0	0 0	0	0 0	3481	0 0	2734	0 0	6684	0	9.418-	9.418-		
32-99	STUDYTOURS	0 0	41.884	0 0	18.016	0 0	23868	0 0	2734	0 0	6684	0	8.598	8.598	52	%
33-00		0 0	6.150	0 0	0	0 0	0	0 0	0	0 0	0	0	0	0.150-		
33-01		0 0	0	0 0	0	0 0	6150	0 0	0	0 0	5000	0	5.000-	11.150-		
33-99	INSERVICE	0 0	6.150	0 0	0	0 0	6150	0 0	0	0 0	5000	0	5.000-	5.000-		
38-00		0 0	5.465-	0 0	0	0 0	0	0 0	0	0 0	0	0	0	5.465-		
38-02		0 0	0	0 0	0	0 0	504-	0 0	0	0 0	0	0	0	568-		

RUN-DATE: 1993-11-03  
UNIDO - UMAP02/8

DETAIL REPORT ON PROJECTS AS AT 1993-10-31  
BY PROGRAM ELEMENT AND COUNTRY

PROJECT NUMBER: US/SUD/88/100

PAGE 2229

PROJECT TITLE NATIONAL HIDES AND SKINS, LEATHER AND LEATHER PRODUCTS  
IMPROVEMENT SCHEME - EAST AFRICA (ALSO REF US/RAF/88/100)

BACK STOPPING OFFICER: MS CALABRO  
PROJECT REVISION: G - ONGOING  
PROJECT STATUS: O - ONGOING  
PGM-ELEMENT CODE: J13104  
FIRST ISSUED: 88-03-08 LAST UPDATED: 93-04-08  
DONOR: ITA

BUDGET LINE	DESCRIPT.	TOTAL ALLOTMENT		CURR YR PHASING		PRIOR YEAR EXP		CURR YR DISB		BAL CURR YR OBL		COMMITTED FUTURE YEARS (11)	BALANCE CURR YR (12)	UNCOMMITTED BALANCE (13)	YTD IMPL VERSUS PHASING (14)
		M/M (1)	DOLLARS (2)	M/M (3)	DOLLARS (4)	M/M (5)	DOLLARS (6)	M/M (7)	DOLLARS (8)	M/M (9)	DOLLARS (10)				
38-03		0 0	0	0 0	0	0 0	4897-	0 0	0	0 0	0	0			
38-99	SUR PY OBL	0.0	5,465-	0.0	0	0.0	5465-	0.0	0	0.0	0	0			
39-99	TRAINING	0 0	42,589	0 0	18,018	0 0	24553	0 0	2734	0 0	11884	0	3,598	3,598	80 %
41-00		0 0	20,029	0 0	2,554	0 0	0	0 0	0	0 0	0	0	2,554	20,029	
41-10		0 0	0	0 0	0	0 0	9230	0 0	1484	0 0	75-	0	1,389-	10,618-	
41-11		0 0	0	0 0	0	0 0	7875	0 0	0	0 0	0	0	0	7,875-	
41-12		0 0	0	0 0	0	0 0	569	0 0	199	0 0	280	0	479-	1,048-	
41-99	EXPENDABL	0 0	20,028	0 0	2,554	0 0	17474	0 0	1863	0 0	205	0	666	667	73 %
42-00		0 0	131,409	0 0	14,591	0 0	0	0 0	0	0 0	0	0	14,591	131,409	
42-01		0 0	0	0 0	0	0 0	118818	0 0	11750	0 0	0	0	11,750-	128,568-	
42-99	NONEXPEND	0 0	131,409	0 0	14,591	0 0	118818	0 0	11750	0 0	0	0	2,841	2,841	80 %
48-00		0 0	8,770-	0 0	0	0 0	0	0 0	0	0 0	0	0	0	8,770-	
48-01		0 0	0	0 0	0	0 0	5948-	0 0	0	0 0	0	0	0	5,948-	
48-02		0 0	0	0 0	0	0 0	823-	0 0	0	0 0	0	0	0	823	
48-99	SUR PY OBL	0.0	8,770-	0.0	0	0.0	6771-	0.0	0	0.0	0	0	0	1	
49-99	EQUIPMENT	0 0	144,868	0 0	17,145	0 0	127521	0 0	13413	0 0	208	0	3,627	3,620	70 %
51-00		0 0	32,800	0 0	6,669	0 0	0	0 0	0	0 0	0	0	6,669	32,800	
51-10		0 0	0	0 0	0	0 0	15067	0 0	54-	0 0	2554	0	2,500-	16,167-	
51-12		0 0	0	0 0	0	0 0	288	0 0	0	0 0	0	0	0	288-	
51-30		0 0	0	0 0	0	0 0	1330	0 0	0	0 0	0	0	0	1,330-	
51-40		0 0	0	0 0	0	0 0	7372	0 0	175	0 0	1881	0	2,036-	9,408-	
51-41		0 0	0	0 0	0	0 0	310	0 0	0	0 0	0	0	0	310-	
51-42		0 0	0	0 0	0	0 0	967	0 0	0	0 0	0	0	0	967-	
51-99	SUNDRIES	0 0	32,800	0 0	6,669	0 0	25932	0 0	121	0 0	4415	0	2,133	2,132	68 %
89-99	MISC COST	0 0	32,800	0 0	6,669	0 0	25932	0 0	121	0 0	4415	0	2,133	2,132	0%



RUN-DATE 1993-11-03  
 UNIDO - UMAP02/8

DETAIL REPORT ON PROJECTS AS AT 1993-10-31  
 BY PROGRAM ELEMENT AND COUNTRY

PROJECT NUMBER: US/SUD/88/100

PAGE 2230

PROJECT TITLE NATIONAL HIDES AND SKINS, LEATHER AND LEATHER PRODUCTS  
 IMPROVEMENT SCHEME - EAST AFRICA (ALSO REF US/RAF/88/100)

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

BUDGET LINE	DESCRPT	TOTAL ALLOTMENT		CURR YR PHASING		PRIOR YEAR EXP		CURR YR DISB		BAL CURR YR OBL		COMMITTED FUTURE YEARS (11)	BALANCE CURR YR (12) (4-8-10)	UNCOMMITTED BALANCE (13) (2-6-8-10-11)	YTD IMPL VERSUS PHASING (14) %
		M/M (1)	DOLLARS (2)	M/M (3)	DOLLARS (4)	M/M (5)	DOLLARS (6)	M/M (7)	DOLLARS (8)	M/M (9)	DOLLARS (10)				
00-99	PROJ TOT	48 0	355.600	12 0	00.703	38 0	285018	10 0	14205	2 0	20114	0	20.384	20.384	57