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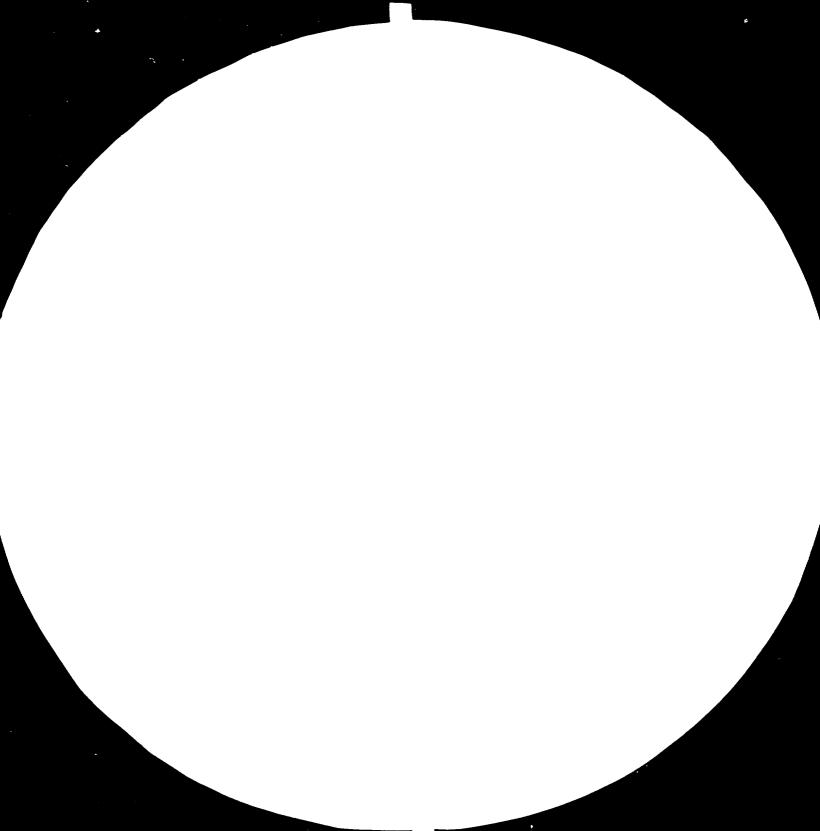
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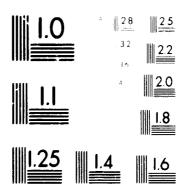
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MICROCOPY RESOLUTION TEST CHART

NATIONAL BUREAR OF STANDARDS STANDARD REFERENCE MATERIAL TOTAL ANSLIED FOR TEST CHARLING SE RESTRICTED

DP/ID/SER.B/433 29 December 1983 English

STRENGTHENING OF THE NATIONAL TEXTILE CORPORATION (TEXCO) DP/URT/78/018

TANZANIA

Terminal Report*

Prepared for the Government of Tanzania by the United Nations Industrial Development Organization, acting as executing agency for the United Nations Development Programme

> Based on the work of R. Ryder Team Leader and Industrial Engineer

United Nations Industrial Development Organziation Vienna

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ORDER ESTABLISHING TEXCO

Government Notice No. 268 Published on 21/12/73 (No. 17 of 1969)

THE NATIONAL TEXTILE CORPORATION (ESTABLISHMENT) ORDER, 1973

- 1 This Order may be cited as the National Textile Corporation (Establishment) Order 1973
- 2. In this Order, unless the context otherwise requires -
 - "the Act" means the Public Corporation Act, 1969
 - "Board" means the Board of Directors provided for in Paragraph 5.
 - "the Corporation" means the National Textile Corporation established by paragraph 3.
 - "Minister means the Minister for the time being responsible for Industries.
 - "Textile products" means products made out of soft or coarse fibres and includes garments of all description.
- There is hereby established a public corporation to be known as the National Textile Corporation
 - (2) The authorized Share capital of the Corporation shall be five hundred million shillings and shall be divided into 50 snares having a par value of 10 Million shillings each.
 - (3) All the shares in the Corporation shall be subscribed to and neld by the Treasury Registrar or such person as the President may designate.
 - (4) The shares shall be issued in such number and in such manner and shall be paid in such manner, as the President may direct.
- 4. The functions of the Corporation shall be -
 - to conduct and engage in the business of manufacturers, processors, producers, importers and exporters of textile and textile products.
 - b) to Duy, self-import and export textiles and textiles products and also raw materials and textile products
 - to establish branches and carry on business either within the United Republic or elsewhere
 - d) to acquire by agreement and hold interests in any undertaking, enterprise or project associated with the textile industry
 - e) to manage the affairs of any corporation, company, firm or other body the interests of which are transferred to or acquired by the Corporation under the provisions of the Act or any subsidiary legislation made thereunder:—
 - f) to do all such acts and things as may be necessary to uphold and support the credit of the Corporation and to obtain and justify public confidence and to avert or minimize any loss to the Corporation.
 - g) to do anything or enter into any transaction which, in the opinion of the Board is calculated to facilitate proper and efficient carrying on of its activities and the proper performance of its functions as specified in this paragraph.

NATIONAL TEXTILE CORPORATION

FRIENDSHIP TEXTILE MILL LIMITED

P.O. 3ox 20842 DAR ES SALAAM

Cable: "URAFIK!"

Telephone: 49101

KILIMANJARO TEXTILE CORPORATION LIMITED

P.O. Box 9561 DAR ES SALAAM P.O. Box 3170

Arusha

Telephone: 20251 2 3 (Dar) 3941 (Arusha)

Telex and Cables "KILTEX" 41032

Manufacturers of textile fabrics and garments

MWANZA TEXTILES LIMITED

P.O. Box 1344 **MWANZA**

Telex and Cables **MWATEX 46118**

Telephone: 40466/2391

Manusacturers of textile fabrics

TANGANYIKA DYEING AND WEAVING MILLS LIMITED

P.O. Box 2621 DAR ES SALAAM Telex and Cables "KANGAKING" 41061

Telephone: 42535

Manufacturers of textile fabrics

TANZANIA BAG CORPORATION LIMITED

P.O. Box 504

MOSHI

Cables "TABCO"

Telephone 4911/2628

Manufacturers of agricultural bags

MUSOMA TEXTILES LIMITED

P.O. Box 652

MUSOMA

Cables "MUTEX"

Manufacturers of textile fabrics

BLANKETS MANUFACTURERS LIMITED

P.O. Box 9523 DAR ES SALAAM Telephone 64471 63676 Manufacturers of blankets

Caples "BMLTO"

UBUNGO GARMENTS LIMITED

P.O. Box 55168 DAR ES SALAAM Telephone 53001

Cables "UGL"

Makers, marketers of garments

THE NATIONAL TEXTILE CORPORATION

GROUP PROJECTS

TABORA SPINNING MILL PROJECT PO Box 272 TABORA

MBEYA TEXTILE MILL PROJECT P.O Box 950 MBEYA

UBUNGO SPINNING MILL PROJECT P.O. Box 9531 DAR ES SALAAM

TEXTILE TRAINING AND RESEARCH INSTITUTE P.O. Box 9531
DAR ES SALAAM

MOROGORO SISAL BAG PROJECT P.O. Box 9531 DAR ES SALAAM

TERRY TOWEL & SEWING THREAD PROJECT P.O. Box 9531
DAR ES SALAAM

MOROGORO POLYESTER TEXTILES PROJECT P.O. Box 9531 DAR ES SALAAM

The National Textile Corporation (Texco) was the counterpart agency for Tanzania, appointed by the Ministry of Industries, for this project. The Texco group of companies in fact accounts for approximately 90% of the Tanzanian Cotton Textile Industry, and the project was concerned solely with this group. The national team leader was Mr.S.H.Nkya, Managing Director of the Texco group and the UNIDO team leader was Mr.R.A.Ryder. National counterpart personnel were to be appointed, one or more for each member of the UNIDO team, to continue at Texco in the respective functions after the completion of the project.

D. ENERGOOGLEON

utilization study, it seems that UNIDC could play a useful " Noting TEXCO's shortcomings in its technical capability in the mills as a vehicle." recommendations of the study using the present management teams monitor and supervise the len Cate study and, subsequently, role by giving TEXCO at least part of the tools it needs to Bank loan to finance the actual implementation of the capacity teams operating its factories and considering that effectively monitor and control the work of the management the summary of findings and conclusions in the report of to monitor and supervise the implementation of the final of OFAS experts recommending a project that consists essentially of a team properly carry out its supervisory task. We are, therefore by its own admission, does not intend to resort to the World The relevant part of This terminal report should preparatory assistance mission of September 1978. the team would be to initially assist an aide memoire to the project concept. to be attached to the TEXCO headquarters. page 6 of that report is reproduced be considered in the light of

Under Secretary General for Administration and Ranagement at of the administration instruction of November 1982 from the personnel of the team, particularly in respect of accountability. have been some misunderstanding, onthe However, from the beginning of the project there appears on the arrival of the Industrial Engineer in March 1980 The project was thus agreed as an CFAS operation and commenced T.M. Headquarters. clarify this there is appended ct (1) (0) functions and responsibilities of the CFAS as follows, the relevant parts part of all parties,

character as civil servents or other comparable employees of a Standard Lareement on Operational Assistance, to perform by the United Nations to functions of Government. CPAS officers are individuals whose services are provided an operational, executive requesting Governments under the terms and administrative

"They are, therefore, not United Nations officials or experts on mission in any sense, but government employees solely accountable to the employing Government. The Government, however, recognises their international status and provides for them terms and conditions of service comparable to those civil servants of the same rank, and in certain respects (e.g. leave, privileges and immunities) not less favourable than those provided by the Organisation to its own officials. 34. Additionally the United Nations under a separate contract, provides the OPAS officers with administrative facilities including:

- (a) The net payment of a stipend and of allowance to supplement their government pay, and
- (b) Travel and transportation and other prerequisites to match those offered to project personnel, with the exception of participation in the United Nations Joint Staff Pension Fund (UNJSPF)

The contract does not give OFAS officers the status of staff members of the United Nations. Except as specified in paragraph 39 below, OFAS officers are therefore not eligible to participate in the UNJSPF which is only open to staff members of a member organisation.

35. While they are accountable only to the Government, and can neither seek nor accept instructions from any other authority in the performance of their duties, CFAS officers are also bound to observe the standards of conduct set by the United Nations in their separate contract."

This situation notwithstanding, the CTA/Industrial Engineer provided written menthly reports from the start of the project to the Managing Director of Texco with copies to the Senior Industrial Development Officer responsible for this project at UNIDO, and to the Senior Industrial Development Field Adviser at UNDP, Dar es Salaam. These reports indicated the monthly progress and continued until February 1982 after which time the CTA was appointed Director of Operations to Texco. Additionally the standard UNDP half yearly project progress reports were completed according to schedule. However, on the appointment of the CTA to the post of Director of Operations and as a substantive director on the Boards of all Texco Group Companies, the monthly reports were discontinued.

The legal requirements of company directors precluded, in the view of the CTA, reporting on company matters to an outside body. A copy of the service agreement between the CTA and Texco is shown in Appendix 1 and details quite clearly the duties and responsibilities of the appointment. Nevertheless the half yearly progress reports and internal evaluation system reports have been continued throughout. Also personal contact has been maintained between the CTA and the SIDFA at UNDP Dar es Salaam.

The project document, signed in September 1979, before the project commenced, showed a UNDP input of US dollars 899,150. The last project revision "L" showed a figure of US dollars 982,188. The increase of US dollars 83,038 is due to the introduction in 1983 of the Mechanical Engineering post.

3. ANALYSIS OF PROJECT CONSTRUCTION AND CONSTRAINTS

With reference to the initial project intention of following up the Ten Cate study and monitoring the implementation of its recommendations, all the study reports were examined by the CTA during the first two weeks of the project. Whilst, as consulting survey reports, the details were satisfactory, in fact they were not a schedule of implementable recommendations as expected by Texco. Consequently it was not a suitable proposition for the UNIDO team to commence supervising implementation. Nevertheless the general terms of the project with regard to activities and outputs were absolutely correct given the economic climate at the time of the mission in 1978. There had been a definite downward trend in the general situation before the project commenced in 1980 and the continuing deterioration of foreign exchange availability has made it impossible to achieve all the outputs in the terms originally specified.

To give some idea of the extent of this problem, the calculated requirements of foreign exchange for the whole of the Texco Group is approximately forty (40) million US dollars per year, equivalent to t.shillings 390 million. This covers the cost of imported chemicals, dyestuffs, spare parts and consumables. The actual situation for the past three years is as follows:-

YEAR	<u>ai:Ci</u>	4.1	ನ <u>ವ್ಯ</u> ರ.	ES FED	<u>alicunt</u>	ALLUCATED
1980	Tan.	Sh.	344	million	110	million
1981	11	**	390	million	29	million
1982	**	f1	453	million	13	million
1983						
Jan -						
June	**	11	281	million	4-	[million

This puts the constraints and outputs of the project into perspective.

Cutput No.1. "Capacity Utilization" has come in for some criticism, particularly at Tripartite Review meetings, in terms of it being, by definition, not an output but an objective.

However the term itself has been widely misinterpreted by most of the involved parties. From the following clarification, and early substitution of an alternative definition, it may be seen that results were obtained and could be regarded as either output or objective although the scale of achievement has been depressed by conditions outside the control either of the project or Texco itself.

CAPACITY UTILIZATION

This term was used in the original project document as a measure of operating performance, and the first output specified was an increase to be achieved of a quoted magnitude.

This was also a term used in previous surveys of the textile industry by other consultants before this project was conceived. This was always quantified as a percentage figure and allied to a number of metres woven.

During the first two months of this project it became apparent that this term meant different things to different parties, mainly being taken to be loom efficiency - also quoted in percentage form. Loom efficiency itself in the Texco group was subject to interpretation and the percentages quoted varied, depending on the custom and practice of the various group companies. Figures quoted were "working efficiency", "shed efficiency", "pick efficiency" etc. and all calculated in ways particular to each mill. Changes in product mix were overlooked in some cases. Many of the figures transpired to be totally misleading for a variety of reasons. The 100% figure was variously exclusive of loom stoppages for breakdowns, repairs, lack of spare parts, routine maintenance, shortage of material, absenteeism, electricity interruptions etc. Error was also made due to breakage or misuse or malfunctioning of pick clocks fitted to locms. This of course is not peculiar to the Texco group nor to Tanzania.

In May 1980 a standard method was introduced into Kilimanjaro Textile Corporation and established in all group mills during the next month. The quoted figure was entitled "overall efficiency" and was calculated on a weekly basis.

;; O bandled about in textile mills and due note should be taken of considerably less than the usual efficiency figures generally 9 11 11 been disciplined, and comparable between group companies. Consequently since that time overall efficiency figures closure for shortage of storpages of any kind other than official holidars or capacity . The definition of absolute capacity is This Ø all the looms ran non-stop for the whole weak, i.e. 155 hours inspection point, taken as a percentage of "absolute calculation of the theoretical metres which could be produced figures also reflect the absolute performance of the company product mix for that week. No allowance is made ы. 13 basio level. Wedessarily these figures will sprear shift system considering performance obtained from or 168 hours on a 4 shift system, based fuel, Tower, ው ነጋ ርቲ levels. actual metres or water supply. neasured H0H total ក ()

to the industrial engineering operations F.1 (0) shown under item 6.1. trend in these performances in the various mills, subsequen in resving sections,

ន ម្យាក្ស Kiltex, being equipped with very old looms, had become Apart from the consistently main reason for this difference is the exame parts es Salaan, other mills improved sufficient in spare parts, whereas more in the way of imported engres improved gerformance of Kiltex. initially then fell ewer. the other mills ressonably requirement. required

yerformances generally suffered badly. (equivalent one hundred million US allocations, of Considering the 3 years of the project, it is not surprising that 04 a, b) over one between foreign exchange requirements thousand million Tanzanian shillings dollers) in total during d D D

achieving obtained in the other mills then the project If the Alitex improvement of some 26 percentage points 70% efficiency would be ve #000 #000 reslised. objective 0

4. <u>1...FU.1S</u>

One particular problem suffered by the project was that of inputs of personnel, both international and national. Experts from UNIDC arrived in a staggered manner, initially, over the first year and replacements did not necessarily arrive immediately after the first experts left. Counterpart national staff were not appointed immediately to the experts due to severe shortage of suitable personnel (hence the CFAS principle) and delays in finalising appointments when the counterparts had been identified. A bar chart showing arrivals and departures of personnel is shown in Appendix 2, and a list of international staff and counterpart staff is shown in Appendix 3. It will be seen from the bar chart that the major counterpart deficiencies were as follows:-

The Industrial Engineering counterpart was not made available until thirty(30) months after the start of that function and then on a half time basis for the next ten(10) months. Thus this counterpart was only working full time for five(5) months before the UNIDO expert left the project in October 1983.

The Textile Technology counterpart was appointed sixteen(16) months after the start of the first thild technologist and in fact was transferred from that position after only twenty(20) months, leaving Texco without a national textile technologist from October 1983.

The Mechanical Engineering post has had no counterpart at all since the jost commenced in January 1983. This leaves only eight months technology transfer even if the appointment were to be made immediately.

5. ACTIVITIES AND OUTPUTS

The listed project activities for the OPAS personnel were as follows:-

- 1) Participate in coordination of production and related improvement programme.
- 2) Support production management to achieve improvement in product quality and quantity.
- Monitor and report on progress and results achieved by management.
- 4) Installation of effective training programme.
- 5) Improve marketing and distribution systems.

The expected outputs were:-

- 1) Increased capacity utilization.
- 2) Improved procedures and written guidelines on quality and process control.
- 3) Improved procedures and written guidelines on preventive maintenance.
- 4) Improved marketing and distribution systems.
- 5) Effective training programme.

The clearest way to describe the performance of this project and the achievements, is in a post oriented presentation, the above outputs being individually relevant to each specific post. In addition, due to the executive nature of the positions, other outputs were produced and are recorded in the post descriptions. For each post/output this report covers the period from the commencement up to the end of October 1983. Some of the posts are continuing thereafter up to mid 1984. Apart from post/output No.1. the other posts will be the subject of additional and completed detail in the final reports of the experts concerned.

6. OPAS FOSTS

6.1. CHIEF PACHNICAL ATVISER/INDUSTRIAL ENGINEER/ DIRECTOR OF CPERATIONS.

CUTPUT NO.I - INCREASE IN CAPACITY UTILIZATION.

This post commenced in March 1980 concluding in December 1983. From the beginning until the end of 1981 the concentration was on Industrial Engineering Operations in the group mills.

1982 was a year spent as Director of Operations and a Director on the Boards of all group companies.

1983 was an extension over the original project post life and was in adviser capacity.

The industrial engineering counterpart did not become available until August 1982 and then part time only. He did not become full time until June 1983.

The counterpart Director of Operations was appointed in October 1982 and succeeded to the post in January 1983. 6.1.1.

During the first period of concentration in Industrial Engineering, work was carried out in several of the group mills with emphasis on improving the weaving operations primarily.

KILPEK - Dar as Salaak.

By the end of May 1980 an incentive scheme had been prepared and was introduced on 2nd June. The overall efficiency progress is shown below.

May	1980	22,5	overall	efficiency
June	1980	30 %	!!	11
Dec.	1980	3 6,3	11	T1
May	1981	3 8%	11	ff
June	1981	42 :	11	ff
Dec.	1981	43%	:1	r f
Cct.	1983	48,	11	T f

The jump in efficiency between May and June 1981 was due to the termination of the 4 shift system and introduction of 3 shifts (135 hours per week). With the machinery being extremely old in this factory, locally fabricated parts can be used more extensively than on newer, sophisticated machines. Also this particular plant has developed good foundry and workshop facilities during the past + years. The main problems at this factory have been caused by water shortages. Nevertheless the present efficiency is commendable for such an old plant.

TANZANIA BAG CURFORATION

An incentive scheme was prepared and agreed for the weaving sections in both mills of this company by December 1980. The management at that time wished the whole factory - all sections, all personnel to start on incentive schemes at the one time. Although not normally practicable this was given some consideration. However at that time the production information returns were not reliable and a postponement was agreed for six months. By mid 1981 however the spare part position had become crippling and the lack of satisfactory operative training had conspired to bring down the performance of both mills to a level where it was not advisable to introduce incentive payments. Both mills in this company have had great difficulty continuing at all. There has been developed a good workshop in one of the mills and together with a potential inflow of imported spares and a nearly established training centre the situation may improve enough to implement the incentive scheme soon.

KILTEX - ARUSHA

A scheme was developed by Cotober 1980 and after some delay was introduced at the end of December 1980. For a time the performance improved then shortage of polyester yarn caused that 60% of the weaving plant normally producing polyester/cotton cloth to be forced to weave 100% cotton fabric. This caused an immediate reduction in performance. The older looms originally weaving cotton cloth then started to deteriorate due to lack of spares and consumables. The average performance has held up to around 50% overall efficiency until late 1982 but has since suffered badly for the same problems, plus diesel and water shortages

MWANZA TEXTILES

Although this company has suffered badly from shortage of electrical power due to problems at the electricity supply generating plant, an incentive scheme was prepared and introduced in 1981. Almost coincidentally with the application of the scheme the power situation, already bad, worsened and the scheme was withdrawn in September. This mill is the subject of discussion later in this report.

FRIENDSHIP TEXTILE MILL

A scheme had been prepared and was introduced into the two mills in this company in July 1981. Already into spare parts and consumables problems the average performance over the 10 weeks reference period prior to the scheme is shown below with the subsequent trend thereafter.

		Overall Efficiency	
		Mill One	Mill Two
Reference	Period	47.5	49.0
September	1981	59. 0	54.0
December	1981	49.0	55 . 0
June	1982	44.C	44.C
December	1982	52.C	44.C
March	1983	53.0	43.C
September	1983	48.C	41.0

Around June 1982 the shortages of shuttles in this factory r began to cause difficulties, exacerbated by shortage of dyes and chemicals. Lack of other spare parts has also caused the situation to deteriorate to the present level.

From the middle of 1980, weekly reporting of production information from all group companies was established, thus giving Texco better monitoring ability than with the usual monthly reports.

duties involved in Directorships of the individual companies. considerable amount of time was spent in management by Texco of requirements specified in the service agreement. This post, held Upon appointment responsibilities was vastly changed, as can be seen few of the major outputs from this post are listed end of 1982, to Director of Operations, its group companies. covered all aspects of 다 다 () the range of In addition rerformance c) () () HOH HOH

1. Strengthening Texco Operations Department

performances Technology Training abroad. Some of these technologists have technically trained strength of the Operations Department was increased with manpower strength had been below the agreed structure for some time. During the period March to December the operations officers with responsibility for monitoring in several group mills. personnel recently returned Fron Textile

agreement had been reached to pay only 80% of the total that company regarding the invoiced fees. reference of the study, nor were the details up to the standard and the overall performance of the Texco group. resulting in a saving of over 27,000 US dollars. expected. from the consultants did not meet sufficiently the terms actions current state of the industry and to define in detail to be taken to improve both the capacity utilization Consequently negotistions were entered into with of this study was to provide a clear statement By the end of June The reports 0 **H**) () }

the managing agents as follows:-Texco had set itself a programme of localisation of management operating companies to Φ Ω, completed by Butssud

Weaving Mill

out by June 1983

Tanganyika Dyeing & Pextiles Itd

Saigols out by Aug.1984

- Dar & Arusha

Saigols out by 1985

Musoma Textiles Ltd.

Schaeffer out by 1985

localised management took control of the company. Tootal's contract was in fact concluded by the end of May and

4. Production Cost Reduction

In view of the shortage of dyestuffs resulting from the lack of foreign exchange, all the group mills were directed to give consideration to the quantity of dyes used in the finishing processes. A critical approach in designing to reduce the dye cover was taken and resulted in a meaningful reduction of the total weight of dyestuffs consumed, without impairing the quality of the production.

additionally, sales of grey cloth were increased, further reducing the reliance on dyestuffs in reaching sales targets. Discussions were also undertaken with the Fanzania Industrial Research and Development Organisation on the development of the use of natural dyestuffs, domestically produced. This is still being followed up.

5. Energy Saving

An energy audit was promoted in conjunction with the Tanzania Industrial Research Organisation resulting in a study by the Irish Institute of Industrial Research and Standards, in two of the group factories at the beginning of December. The results indicated potential annual savings of T.Shs.900,000 and T.Shs.150,000 respectively. Efforts are now in hand to have a full energy survey on all the mills in the group carried out by the same organisation and paid for by I.D.A. grant through the Tanzania Investment Bank. This could be instrumental in estimated savings of at least T.Shs. 5.0 million, much of this in foreign exchange, if carried through completely.

6. Shuttle Manufacture

Discussions were started with a British Shuttle Manufacturer with a view to setting up a shuttle making plant in Tanzania. This would ensure a regular uninterrupted supply of shuttles to the group factories and a consequent reduction in the foreign exchange allocation currently required for importation of this item. Trials with locally obtained woods have been underway since mid 1982 and efforts are being made to have this development sponsored through the United Nations Capital Development Fund. However there is considerable difficulty being experienced in obtaining wood samples for trial as the Tanzania Wood Industries do not seem to have a sense of urgency in this matter.

7. Reduction of Shifts

beginning ው [ጊ number of performers shift working in both factories of Tanzania Bag Corporation saving of 442 staff. decision was made in May to reduce reduction over the whole company from 1752 to 1310 difference in S S S T O carefully controlled level nottonberg of August, both rersons had been removed on each shift was undertaken. Then the go that from the suthorised staffing resulting 13 O E these factories reverted to 2 shifts. programme of releasing the previous 3 shifts. 2 shifts from each From 3 気ので shift shift, at maintained Hy OH working to Heguieite . ⊕ • ው ት። የን' የተ ው የን, ርሀ ω ct poorest

900 shift. After thentifiing the employees the extiles a decision was taken នុក្ស staff, was released and the factory commenced operation on egetem from 14th September 1982. ineff of the surgly equivalent of 1 O H) full shift, approximately lowest performers and most recent in August to terminate I full electric power to Mwanza

8. Fill Closure

が立ち四 ひにも still causing enormous losses at hwanza Textiles a decision In view of the continued interpuption in electricity supply power was provide uninterrupted send the factory remained closed until mid January 1997 when a taken at commitment was given by the the remaining 2 resumed. the end of Reptember to blose the factory completely 13 13 14 0 HOS OFFOCTOR shifts on unpaid leave until sufficient cower. Tanzania Electric From 18th Cotober 1982, Supply Co.

9. Reduction of Staff.

of workers left from December 1982. There was a reduction of 350 # # # # # # natural wastage had overall staffing Terretary admitsher that the thoraction Phis number consisted (þ [2] (‡ not taken # white to personnel at Sunguistex in and office care, plus and effective 3 shift reduction, of positive of the patterno personnel

10. Garment hanuiscours

Course Garments Etd. guarantee by Texco. 80,000 metres of this under a protocol with Mozambique, financed liquidation. An arrangement was made to have cloth, imported time, and assistance was given m ct previousiy. returning to him improvement within the month of luguet of 3.0 million shillings. previously outstanding resold at a total profit of 2.0 million shillings, mostly shillings profit, as less than 20% of the material had Texco company when that garment maker had defaulted on payment Tates in the the made up jeans price thus netting a debtor against The material was sold through year a deal was struck with a private garment maker, jeans material which had been purchased by a ኒን መ ኳ, for over the recovery of over 1.0 million shillings been in financial difficulty for to svoid the a year. This showed an overall further 2.0 million ς<u>4</u> o Ubungo possibility of loth was immediately Toer. Garments, man inst a

dollars) gave this made up by U.G.I. overall profit company a welcome financial boost for 1982. of 5.0 million shillings (over half ίŋ Hillion

during 1981, using extend the withdrawal period Arab Develorment. Regotiations were opened extension would be December 1982. dollars, until the end of 1983. recabilitation Ewanze Textiles Rehabilitation It was agreed by the end of the gear that of the No. 1 mall granted, involving approximately 5.0 million funds evailable from the THOM THE TOTAL PROTECTION 015 (1216) with the Fund company was Euwait Fund for μ. Ν (1 (0 0 commenced do

5.1.5

the Kanaging Director on day to day management problems. During this year also more time has been spent dealing with beginning of the Director of Operations, appointed to that post from the During the whole of 1983 this The first quarter was spent in close contact with the national year, effectively handing over the post was in an advisory mode.

associated sections in the Kilimanjaro Textile Corp. development of an incentive payment scheme for spinning and became available full time and has been mainly involved Halfway through the year the industrial engineering counterpart in the

companies by the counterpart industrial engineer at Texco. be supervised on their assignments in their individual companies under development as they are commissioned. starting mid October and concluding mid December. This will A full time Work Study Officer training course has been During their first year, 1984, the newly trained personnel will companies provide a together with four trained personnel to work in the trained work study officer for each of the openating promoted

6.2 GRUUF LEXIILE TECHNOLOGIST

OURFUR NO.2. -FOR QUALITY AND FACOESS CONTROD. IMPROVED PROCEDURES *RITTEN GUIDELINES

grade April quality controls were instituted on woven cloth processes that period was not as productive as expected, nevertheless specific quality Kiltex and implemented and all mills commenced Thorpe, counterpart was available during .186I percentage was increased from started in early December 1980 Sunguratex in Dar es Salaam. stayed only until mid Cotober 1981. However, whilst Subsequently improvements, a revised for example at Kiltex the first using this report. weekly information sheet 263 to 773 by the end of the whole of this These resulted in and the first incumbent time. 12 14. i i i

early December 1981. then in March and April visits to Awanza and Ausoma mills took visits were made to the textile mills in the Dar es Salaam area, The replacement expert, I. Hoshiyama, succeeded to priority needs for assistance. Subsequently a programme was agreed based on assessed During December, January and February ಶಿಂತಕ

guidelines were issued after in-depth study at the time of and directly after initial visits at all mills, written apart from immediate The counterpart technologist was finally companies. recommendations and instructions at appointed in March 1982. following 9 CL CL

Musoma Textiles Musoma Textiles Kilimanjaro Textile Corp.(Arusha) Tanzania Bag Corporation Textiles August 1982 December 1982 April 1982 E and a January 1983 1983

of production in all processes. procedures to be followed detailed instructions on measures to guidelines in fact consisted of extensive, to impreve qualities be taken and operating and comprehensive, efficiencies

Copies of these headquarters. (a) available at 100 a relevant company

assicuously by the expert to ensure that correct action or these TAKOP. instruction manuals have been followed up

company by the deficient in their performance and resistant implementation of the improvement programme, where much or advice. Difficulty arose in the case of Eusoma Textiles in managing agency team at that company proved surprisingly put in because of the export oriented nature of the An inordinate amount of time was apent on this expert. to instructions . tugtuo

Other group companies in which guidelines heve currently being worked on, have taaaq 田OTe receptive. been issued,

raised to meet markets, where improvement of general (n (p (2) 1000 1000 there has been great emphasis considerable amounts of foreign exchange the demanding requirements of the european endeavouring to have the the yarn and cloth intended for the export trade. product quality standards on the quality Can

those foreseen by the project document Two other major sotivities developed for post, extra d

- Involvement in the rehabilitation undertakings companies. in two
- recommendation of new machinery and processes. For the projects under development, assistance preparation of tender documents, evaluation of on the tenders

erote involved equipment rextites and Kilimanjaro The companies involved in the rehabilitation work are Mwanza technical scrutiny and of some five(5) million UD dollars value has been Textile Corp. in Arusha. At Ewanza evaluation of machinery and

Ubungo Spinning Mills. Eorogoro Tanzania projects concerned with Folgester Textiles. Sewing Thread. tenders, Terry evaluations etc. Towel Froject. Textiles Spinning Mills.

Recently the expert has been involved in discussions relating to possible cooperation between Texco and the Tanzania Sisal Authority regarding a mill owned by T.S.A. at Korogwe.

The expert reverted to adviser status at the beginning of June 1983. An extension is being sought for this post which is contracted to end early December 1983.

6.3. GROUP TRAINING EXPERT/ DIRECTOR OF MANFOWER DEVELOPMENT OUTPUT NO.5. - EFFECTIVE TRAINING PROGRAMME FOR SUPERVISORS AND MACHINE OPERATORS.

This post was first filled at the end of December 1980. The expert concerned was J.S. Kristensen. During January 1981 this expert returned home briefly for medical treatment. In June 1981 he was medically evacuated and did not return until August, and after a final deterioration was again medically evacuated in early October. During this period only a small amount of effective work was completed. The post remained unfilled for over six months whilst a replacement was selected, interviewed and appointed.

R. Blackburn was the second expert, arriving at the end of April 1982. It had been agreed previously with the Managing Director of Texco that the new expert would not be appointed, on arrival, to the post of Director of Manpower Development in view of the problems arising with the first expert. However, within two months the performance of Mr. Blackburn was sufficient to indicate that this would be a satisfactory appointment. This was agreed and Mr. Blackburn was confirmed in that position in July 1982.

Again, due to the requirements of this post the activities and outputs covered a much broader spectrum than originally specified. The range of current activities is as follows:-

- 1) <u>LCCalibation</u> scheme which identifies the progress of counterpart training to replace foreign management, is ready.
- 2) MANAGEMENT DEVELOPMENT and appraisal scheme for all management levels is being prepared.
- 3) INDENTIFICATION OF TRAILING LEEDS system for employees at all levels, throughout the organisation has been provided.
- 4) TRAILING AND DEVELOPMENT FLANKING system to accommodate the identified training needs and the methods to be used has been passed by the training committee.
- 5) <u>MODIFICATING REGISTERED FRAINCES</u> system for "long term" trainees, i.e. in excess of one year, is ready for implementation.

- 6) SYSTEMATIO CHARATIVE FRAUNTING manuals are at second draft stage at Tanzania Bag Corp. and first draft at Ubungo Garments.
- 7) ManPOWER PlankING multi.structure system, indentifying terms of performance for management personnel, labour statistics, job improvement areas and also serving a corporate planning function, is partially complete.
- 8) <u>EDUCATION AND EXTERNAL COURSES</u> information resource has been completed.
- 9) REPARINING SUMERE on fault tracing, indentifying faults associated with lack of skill at operative and technician level, and provision of remedial training, is ongoing.
- 10) <u>SChCLarCHIPS</u> maximisation, appropriate to the needs of the organisation is fully implemented with satisfactory results.
- 11) GOVERNMENT Folicies liason with Ministry on policy matters affecting manpower development activities.
- 12) <u>EXPERMAL RESCURCES</u> liason with training agencies, government sectors, machinery makers and similar bodies is promoting facilities beneficial to Texco manpower development.
- 13) PROGRESS REPORPING systems in various manpower development activities are available.
- 14) <u>FRAILING FOLICY</u> statements covering the total workforce have been developed and are ready for introduction.
- 15) AT TEXCO HEAD-UARTERS a lecture room was designed and the construction and installation of equipment was closely supervised. There are now first class facilities for conducting training courses for all levels of management.

Several counterpart/support staff have been in office since the arrival of the expert, although a national Director for this function has not yet been appointed. The expert reverts to adviser status in November 1983 and the post is due to terminate in June 1984. At that time a full final report will be issued by the expert.

GROUP HERABULING HENRESIA

CUIFUL NO.4.

INFROVED

PHOHERECHICE CHORDES.

was maintained with this project. Trade, working specifically for Texco, and very close lisison Centre marketing expert attached to the From the beginning of 1980 there An unusual situation existed in marketing assistance to Texco TE SEW Board of External International Irade

By this 1981, assuming the post | ; |2 |0 post was in In September 1980 the follows:finally selected extent, π_* Vashtokari, arrived in April extert and had the counterpart had time the export Tanzania for one month and proved cotally unsuitable. 0000 first candidate for the involved in fact already been working with the marketing developments were underway, of Group Harketing Hanager at Jexco. in export marketing UNIDO merketing

belected Eurogean Countries Southern 出力はこのの November 1980 September 1980 1

(i) Subsequently other missions Follows:followed STATE STATE șt D 0.1 1.4 1.4

Federal Rejublic Germany September 1981 H 00 H

Several Suropean Countries

;; ;which has since proved subcessful. Indeed this was the post Manager having UNIDO expert reverted to adviser status, both in Cotober 1982. Marketing Wanager until the IIO expert left lenzania and This counterpart worked with both experts as and U.K. best served the project. counterpart at that by counterpart been judged competent time succeeded to Group Marketing appointment amonget all the posts by Texco, a decision Teputy Spour

ន្តមួយ in September 1982, that there was no further requirement for presented by the foreshortened by continued expert. adviser left * well established and competent marketing section since. Government at the Inipartite Review meeting the prodect in April 12 months consequent upon the decision, . KB61 This post was

p H April terminal report 1983, which ր. Մ on his activity was available t t Texco ្ ភ្នំពេញ submitted UNIDO. Å, 9 17 17 expert

6.5. GROUP MECHANICAL ENGINEER

CUTPUT 1.0.3. - IMPROVED PROCEDURES AND WRITTEN GUIDELINES PREVENTIVE MAINTENANCE, ELERGY CONSERVATION AND SPARE PARTS SUPPLY.

This was not a post conceived in the original project proposal and design. However the need for such a post became apparent and this was proposed by the CTA early in 1981. The inclusion of this post was agreed at the Tripartite Review meeting in July 1981 and a period of 18 months duration was recommended. Subsequently some considerable time passed before a suitable candidate was identified, accepted and became available. In fact the expert arrived to take up his appointment mid January 1983. Consequently only ten months have elapsed since the start of this activity. Initial visits were made to all Dar es Salaam mills in January and February and to upcountry mills in May. Each visit resulted in a report giving a complete assessment of the existing state of affairs in each mill from the mechanical engineering aspect and brief recommendations Subsequently the following outputs have been produced:-

MARCH Complete, comprehensive routine and preventive maintenance programme and manuals for preparing and spinning machinery for all Dar es Salaam mills.

AFRIL Supplementary manuals explaining maintenance cost control, required staffing, work routines and control system.

Foundry and workshop procedures.

JUNE Maintenance seminar at Dar es Salaam for maintenance staff and storekeepers from all group mills.

AUGUST Comprehensive maintenance manuals for boiler houses and air conditioning plants for all group mills.

In preparation - preventive maintenance manual for Blankets Manufacturing Co. Ltd.

Maintenance programme for all processing machinery for all group mills.

No counterpart has yet been made available. The expert reverts to adviser status in January 1984. This post is currently planned for termination in June 1984 although efforts are in hand for an extension period.

A full final report on this activity will be presented by the expert on completion.

7. RECOMMENDATIONS

9 11 0 word CONTROL. essence of these recommendations can be summed up

major shareholder. and to achieve optimum return on their investment as sole or National Textile Corporation to ensure control of The theme of this project throughout has been to strengthen the <u> ದ</u>ೊಂದ<u>್</u> companies

ability now in this division. of Director of Operations. There is also a strong financial subsequently by the appointment of a technical man to the post technologists to positions of operations officers and capability, initially by the appointment this control is The Operations Division at Texco is the main vehicle by which has been strengthened considerably in its technical exercised. This division, during the of national textile

diligently, and nothing taken for granted. The substance of group company reports to national general management but generally to a much lesser extent. recommendations or instructions. The same is also true of or when they consider that they know better and ignore which reflect adversely on their management ability and capacity, managing agents, where there is a tendency to gloss authorities in Texco. Resistance is sometimes encountered and there must assigned to their care. the performance of the individual companies which have been Operations Officers are responsible for monitoring and influencing be sound support for this from the highest Strong action is frequently required Texco must be checked over matters

require immediate initiation or support by Texco Operations can only be regarded as "production reminiscences" and have little accurately and on time. group companies are encountered. These reports must be presented for almost three years but lapses on the part of some of the A system of weekly production reporting has been in operation aware of the operating situation early enough. may indicate that management in the company itself is also not Division. Noreover, late presentation of those figures to Texco a dynamic situation where resedial measures frequently Figures received a month or more late

companies and are an ideal body through which to channel accurately advised of the situation obtaining in their josition of a instructions and advice to The individual group company Boards in some cases the Chairmanship. relevant as the Director of Cperations Director on all the group company company management. or Directors holds the Boards This is all should ក. ដូ

Operations Officers on the currently introduced quality and who will have recommended procedures. maintenance In the immediate future strong follow up must be made by the gaoggue control systems to ensure compliance with the i z should be given to Texco's Industrial Engineer onerous task for the next twelve months

d O that future effort Director of Manpower Development must ensure that the does not become diluted. progress being made does be appointed not falter and

initial assignments there.

following up

operations

Officers on

their return to their own companies and in the

of the newly trained Work Study

8. CONCLUSIONS

The project has been underway for over three and one half years now and will continue as planned with experts in some activities for another seven months. There is, however, the probability of further extension for a short period, again only in one or two activities.

A considerable amount has been achieved by the project staff due to their concerted efforts as a team, notwithstanding the individual, OPAS nature of the posts. A good measure of cooperation and support has been afforded by all Texco management and staff, and, with few exceptions excellent relations and cooperation have been the theme with group company managements.

The problems encountered due to the country's recent and present financial difficulties should not be underestimated and it should be understood that these difficulties will continue for the foreseeable future. Texco will continue to encounter these problems and, no doubt, others not previously experienced. It is certain that Texco has improved the management of its affairs in no small measure due to this project.

It may be suitable for Texco to review its general situation after a period of one or two years and consider how a further phase of assistance could be useful, possibly in a different mode, through the United Nations Development Programme, finances permitting.

Texco controls the leading industrial undertaking in Tanzania and should feature largely in any industry assistance plans of the Government.

Finally the CTA records his appreciation of the support and assistance afforded to him by all the UNIDO team members.

Appendix 1 NATIONAL PERFILE CORPORATION SERVICE AGREEMENT

AN AGREEMENT made the day of Cne thousand Nine hundred and BETWEEN THE NATIONAL TEXTILE CORPORATION a Corporation established under the Public Corporation Act, 1969 (hereinafter called "the Corporation" and invariably referred to as "Texco") of the one part and REGINALD AUDEN RYDER of Tenbury Wells, Britain (hereinafter called "the officer") of the other part.

whereas the United Nations Organisation hereinafter referred to as "the Organisation" had on the 13th May 1965 (as revised on the 29th May 1971) concluded an Agreement with the Government of the United Republic of Tanzania (hereinafter referred to as "the Government") concerning the provision by the Organisation of officers to perform functions of an operational executive and administrative character, as civil servants or other comparable employees of the Government.

AND WHEREAS Mr. Reginald Auden Ryder had on the 3rd March 1980 signed a contract with the Organisation as one of the aforesaid officers, to provide the services of an Industrial Engineer to the Government on the terms spelt out in the said contract a copy of which is attached hereto as an Annexure 1.

AND wHEREAS the Government has designated the Corporation as an institution in which the officer is going to provide the said services, and the officer in his personal capacity and with the approval of the Organisation wishes to enter into this Agreement to provide to the Corporation the services of Director of Operations in addition to duties of an Industrial Engineer.

NOW IT IS HEREBY AGREED AS FOLLOWS:

1. FUNCTIONS OF THE OFFICER

The officer who is designated by the Organisation as an Industrial Engineer undertakes in his personal capacity and with the approval of the Organisation to perform in the Corporation duties of Director of Cterations.

As Director of Operations the officer will report to the Managing Director and is responsible for ensuring that the Corporation's investments in the Group Companies are safeguarded and that these Companies are managed so as to achieve the maximum rate of return to the Corporation.

The officer will head the Directorate of Operations and will supervise the Group Management Accountant, Group Froduction Controller, Senior Operations Officer, and Group Marketing Manager.

- Without prejudice to the generality of the aforegoing, the officer's principal duties will be as follows.
- 1.2.

 To review with Group Company Management capital expenditures, to ensure that these are evaluated thoroughly and consistently.
- 1.3.

 To recommend to the Director of Planning and Finance a Group Companies Budget consistent with overall planning guidelines.
- To ensure that Group Company Managements prepare and transmit realistic target levels of performance (production, sales and profits) for incorporation in Texco Annual Plan.
- 1.5.

 To participate in the preparation and review of implementation schedules for approved projects.
- 1.6.
 To direct and co-ordinate the establishment of enterprises, in accordance with agreed project development procedures, including the training and briefing of Management and formulation of plans, policies and targets to ensure operations reach

projected levels.

1.7.

To participate as a member of their Boards, in direction of Group Companies, to ensure that Management is achieving planned levels of performance and supporting national policies.

1.3.

To prepare reports and present to the Managing Director and Texco Board to indicate the financial and operating performance of companies and the action being taken by Management to improve that performance.

1.9.

To make recommendations on matters of operating policy requiring the Managing Director's and Texco Board's decision or approval (e.g. the dismissal of incumbent management, major capital expenditures etc)

1.10

To provide, or assist in obtaining, advice to the Boards and management of Group Companies in preparing and implementing plans and programmes to improve the profitability of their operations.

1.11.

To assist Group Companies in solving specific management and financial problems (including negotiations or liason with Government and parastatal bodies, Banks and financial institutions, overseas suppliers, etc)

1.12.

To investigate and evaluate possible services or forms of assistance that Texco should provide to Group. Companies and to recommend to the Managing Director those that can make a significant contribution to company performance or can be provided most economically or effectively on a centralised basis.

1.14

To perform other duties appropriate to his qualification and experience which the Corproation may call upon him to perform.

2.0 COMMENCEMENT AND DURATION OF AGREEMENT

This Agreement is made for a period of one year from the lst of March 1982.

3.0 RENEWAL

Three (3) months prior to the expiry of this Agreement the officer shall indicate to the Corporation in writing whether or not, it is his intention to renew the contract and if it is the Corporation's intention to renew this Agreement, the Corporation shall inform the officer of its intention within one month of the receipt of the officer's indication of intent to renew the Agreement.

4.0 PLACE OF EMPLOYMENT

The officer shall be stationed in Dar es Salaam and will be required from time to time to travel Up country and visit Mills under the Texco Group of Companies.

5.0 REMUNERATION

The Corporation shall pay to the officer a basic salary of shs.4,100/- (shillings four thousand one hundred only) per month subject to deductions of income tax and house rent.

6.0 LIVING JUARTERS

The Corporation shall provide a house or flat furnished with basic hard furniture and the officer shall be required to pay $12\frac{1}{2}$ % of his salary as rent.

7.0 SERVICE AND SECRECY

7.1

During the continuance of the Agreement the officer shall devote his full time to his duties as specified in Clause 1 hereof and shall do all in his power to promote, develop and extend the business of the Corporation and shall not directly or indirectly engage and/or be concerned and/or be interested in any other business of any kind whatsoever except with the consent of the Corporation previously obtained.

7.2

The officer shall not without the consent of the Corporation divulge any matters concerning the business of the Corporation which come to his knowledge in the course of discharging his duties except so far as may be necessary and proper for the conduct of the business of the Corporation and the officer pledges himself to absolute secrecy on all such matters.

7.3

Upon the termination of this Agreement from any cause the officer shall:

- 7.3.1. Forthwith deliver to such person or persons as the Corporation shall indicate all documents, accounts and any other property of the Corporation entrusted to him and
- 7.3.2. he shall make a note of the position in respect of all pending matters with which he dealt and deliver such note to the said person or persons indicated by the Corporation:
- 7.3.3. In the event of non-observance or contravention by the officer of the provisions of this clause the officer shall be liable to the Corporation for any damage the Corporation may suffer as the result of the officer's non-observance or contravention of the said provisions.

8.0 RIGHT OF THE CORPORATION TO RECOVER FROM THE OFFICER PERCUNIARY LOSS AND/OR DAMAGE SUFFERED BY THE CORPORATION DUE TO THE OFFICER'S REGLIGENCE OR BREACHES OF DUTY:

Where the Corporation suffers any loss or damage as a result of non-compliance by the officer of any order, instruction or direction given to him by the Corporation or as a result of any neglect of duty whatsoever on his part, the Corporation may require the officer to make good such loss or damage (or for such part thereof as the Corporation may decide to make the officer liable) by witholding such portion of his salary every month as the Corporation may decide until the officer's liability is fully discharged.

PROVIDED HOWEVER THAT should the officer dispute liability, the matter shall be referred to an arbitration tribunal composed of three members, one nominated by the Organisation and the other by the Corporation. The Chairman of the Tribunal to be elected by the arbitrators so appointed. The decision of the said tribunal shall be final.

9.C. <u>INSTRUCTIONS</u>

The employee pledges himself unconditionally to follow all instructions regarding the business of the Corporation in its widest sense given or to be given to him generally and specifically either by the person for the time being holding the position of Managing Director of the Corporation or by any person whom the Corporation has placed or may place in a position of authority over him and use any power of attorney given to him by or through the Corporation only within the limits of such general and specified instructions. The officer shall be personally liable to the Corporation for any disobedience to or any deviation from such instructions.

10.0 TERMINAPION OF AGREEMENT

This Agreement may be terminated by each of the parties hereto by giving a three month notice to the other in writing.

11.0 TRAVELLING ON BUTY AND TRAVELLING ALLOWANCE

When travelling on duty the officer shall be provided with such transport facilities as may be prescribed. The officer shall also be paid the prescribed subsistence allowance. The rates applicable are those prescribed by the Standing Committee on Parastatal Organisations (SCGFC) in Tanzania.

12.0 PROPER LAW

This agreement shall be construed for its meaning and effect in accordance with the laws of the United Republic of Tanzania.

IN wIPNESS WHEREOF the parties hereto have hereunto set their hands this day of One Thousand Nine Hundred and in the presence of:

	1980	1981	1982	1983	1984	#A [1]
CTA/ Ind.Eng.	JFMAMJJASOND		JFMAMJJASOND WXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(3××××××××××	FFMAMJJASOND CCCCCCCCCC	FENDIX 2
C/part D.O Textile Tech. C/part.		× × × × × × × × × × - ×	X X X X X X X X X X X X X X X X X X X	(x x x x x x x x x x x x x	C C C C C C C C C C C C	EXFERT
Train. Expert. Supp. Staff.	***	XXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	4×××××××××××××××××××××××××××××××××××××	, , , , , , , , , , , , , , , , , , , ,	S AND COUNT
Market. Expert. C/part.		CCCCCCCCCC	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	E S S S S S S S S S S S S S S S S S S S	C C C C C C C C C C	COUNTERPARTS
Mech. Eng.				X		-36-
Tr.Ins. Adviser						

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APPENDIX 3

UNIDO PERSONNEL

R. A. Ryder. U.K. Chief Technical Adviser/

Industrial Engineering.

K. Vaahtokari. Finland Textile Marketing.

S. Thorpe. U.K. Textile Technology.

T. Hoshiyama. Japan. " "

J. S. Kristensen. Denmark. Textile Training.

R. Blackburn. U.K. "

M. Elsaadaney. Egypt. Mechanical Engineering.

P. Smith. U.K. Textile Institute Adviser.

TEXCO COUNTERPART/SUPPORT PERSONNEL

S. H. Nkya. Managing Director.

A. P. Ng'wandu. Director of Operations.

B. Mhina. Industrial Engineer.

S. F. Mwalongo. Group Marketing Manager.

N. C. Ng'homango. Textile Technologist.

L. J. Kasulwa. Education Officer.

I. S. Mbagile. Technical Training Officer.

S. A. Sadallah. Manpower Development Officer.

APPENDIX 4

MAJOR ITEMS OF EQUIPMENT PURCHASED BY UNIDO

	U.S.DOLLARS.
Textile Testing Equipment (Various)	10,900
Photocopier and Accessories.	4,600
Paper Shredder.	1,000
Punch Bind Machine and Accessories.	1,900
Shuttle Truing Machine.	4,8 CO
Voltage Regulator	1,000
Overhead Projector and Screens.	1,700
Video and T.V. Monitor.	1,300
Film Projector and Screen	1,600
Peugeot 504 Estate.	8,000
Toyota Landcruiser.	7,000
Total to date.	43,800
Transferred to this project temporarily from o	ther projects
Toyota Landcruiser	6,400
Peugeot 504 Estate	8,700
Air Conditioner	600

AFFENDIX 5

STUDY TOURS

April	1982	Study market for Textile Product in Europe	A. M. Mtandika Spinning Manager Mwanza Textiles.
Aug.	1982	Study training facilities in France/Belgium	A. Wamunza General Manager Musoma Textiles.
Sept.	1982	Study shuttle manufacture in United Kingdom.	S. H. Nkya Managing Director Texco.
Oct.	1983	Attend International Textile Machinery Exhibition in Milan.	S. H. Nkya Managing Director Texco.

APPENDIX 6.

SUB CONTRACTS

	Carried out by Fielden House	
	Productivity Centre U.K.	Cost
		US Dollars
September 1982	Sewing Machinist Instructor	
- 7 Weeks	training course for the Group	
duration	Garments Manufacturing Operations	14,000
		•
Uctober 1983	work Study Officers training	
- 2 weeks	course for selected personnel	
duration	in all group companies	
		14,000
November 1983	work Study Appreciation course	
- 3 Day	for top management from Texco	
duration	and group companies	

A negotiated price reduction on the first quoted course (from US dollars 19,000) subsequent to the course being conducted, enabled the quoted work study course to be carried out.

