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DP/ID/SER.A/1388 18 September 1990 ORIGIPAL: ENGLISH

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## RESEARCH AND DEVELOPMENT ON VARIOUS METHODS OF SPINNING SHORT STAPLE COTTON

DP/VIE/86/014/11-01

VIET NAM

Technical report: Third mission of the Chief Technical Adviser\*

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

Based on the work of Roy Nield, Chief Technical Adviser

Backstopping officer: J. P. Moll, Agro-based Industries Branch

United Nations Industrial Development Organization  $\gamma$ 

<sup>\*</sup> Mention of company names and commercial products does not imply the endorsement of UNIDO. This document has not been edited.

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## ABBREVIATIONS

BSO Back Stopping Officer (UNIDO)

CTA Chief Technical Adviser

Est Estimate

JD Job Description

MOLI Ministry of Light Industries NPD National Project Director

Prodoc Project Document
Reg xx Requisition No. xx

SIDFA Senior Industrial Development Field Adviser

TOR Terms of Reference
TPR Tri-Partite Review

TRI Textile Research Institute (Hanoi)

TRSI Textile Research Sub-Institute (Ho Chi Minh City)

UTE Union of Textile Enterprises

## I. EXECUTIVE SUMMARY

The mission took place during July and August 1990, coordinated with a mission to Project DF/VIE/86/015 in Ho Chi Minh City.

The project concept remains very relevant to the Government's Development Plan which emphasises the need to expand the production of consumer goods especially clothing by increased utilization of indigenous raw materials.

A progress report by the CTA is attached as Annex 1.

Output 1, cotton testing laboratory, will be fully produced after completion of the expert missions.

Output 2, testing of yarn properties, will be produced after delivery of the Uster evenness and Tensorpid yarn strength testers and completion of the expert missions.

Output 3, pilot plant, should be be produced before the end of 1990 when the building will be completed and the 2 major items of equipment (ordered early 1989) installed.

In connection with Output 4, the TRI has already made a set of prototypes which is being field-tested in a village under the supervision of the returned fellowship group and the Expert who was fielded in August 1990.

The main objectives will be achieved within the expected life of the project (3 years from 8/8/88).

It is recommended to continue implementation of the project according to the work plan given in Annex 5.

The most suitable date for the next TFRs for this project and 015 is 13 December 1990. The following timetable is proposed:-

- Oct 24 CTA arrives in Hanoi and works in Project 014
- Nov 18 CTA travels to HCM City and works in Project 015
- Dec 9 Back Stopping Officer (BSO) arrives HCM City
  - 10 Visit to project 015. Meeting with NPD and CTA
  - 11 BSO and CTA travel to Hanoi
  - 12 Visit to Project 014. Meeting with NPD and CTA Visit to UNDP. Meetings with Res Rep and SIDFA
  - 13 Visit of delegates to Project 014 TPR for 014. TPR for 015
  - 14 Final discussions with BSD
  - 15 BSO departs from Hanoi to Vienna
  - 18 CTA departs from Hanoi to UK.

It is suggested that the proposed Joint Evaluation Mission be postponed until March/April 1991 when an evaluation will be more meaningful.

## II INTRODUCTION

The development objective of the project is to increase the availability of good quality textiles for domestic consumption which is in line with the Government's development plan for the period 1986-90 which emphasizes the need to expand the production of consumer goods — especially clothing — by means of increased utilization of indigenous raw materials.

The immediate objective is to strengthen the capability of the Vietnam Textile Research Institute in evaluating cotton fibre and conducting spinning development work with particular emphasis on the use of short staple cotton.

These objectives were elaborated upon in the first mission report of the CTA (DP/ID/SER.A/1152) dated 13 February 1989.

#### III RECOMMENDATIONS

- Continue implementation of the Project according to the Work Plan (Annex 5) and increased Budget (Annex 8).
- Complete the civil angineering work in the pilot plant complex as soon as possible (NPD).
- Arrange for the entire spinning department (except the blowroom) to be air-conditioned. (Government).
- 4. Officially inform UNDF of the increased budget (MOLI).
- 5. Inform UNIDO of the increased budget (UND?).
- 6. Order the Uster Tensorapid as soon as possible (UNIDO).
- Manufacture locally a set of nep counting boards and templates (NPD).
- 8. Reorder the periodicals for a further 2 years (UNIDO).
- 9. Issue revised JD for post 11-02 Textile Testing (UNIDO).
- 10. Field the Textile Testing expert for 1 month in November 1990 to overlap with the next mission of the CTA (UNIDO).
- 11. Field the Blowroom technician as soon as possible after delivery of the equipment (UNIDO.
- 12. Prepare for the arrival of the experts (NFD).
- 13. Provide the CTA with a contract for his next mission to Hanoi and HCM City (approx 1/2 time in each) as follows:

Duration: 10 weeks (incl. travel time/completion of reports at home base) over a period between 17 October 1990 and 10 January 1991.

Travel: St Annes on Sea/London (2 days for visa purposes)/ Hanoi/Ho Chi Minh City/Hanoi/St Annes on Sea (5 days at home base for completion of reports). For itinerary in Vietnam please see page 2. (UNIDO).

- 14. Organise the next TPR, co-ordinated with Project 015, in Hanoi on 15 December 1990. (UNDP, Hanoi).
- 15. Postpone the Joint Evaluation Mission, co-ordinated with project 015, until March/April 1991. (UNDF).
- 16. Prepare to discuss the possibility of a project extension at the next TPR. (Government, UNDF, UNIDD).

### IV. ACTIVITIES AND OUTPUTS

## Purpose of the Mission

To review progress since the last mission and the follow up of the recommendations in the previous report and the decisions taken at the TPR.

To clarify outstanding issues and decide what needs to be done.

To discuss the training programmes and debrief the trainees.

To up-date the work plan.

To advise the NPD on the work to be carried out in the absence of the CTA.

To revise the Job Descriptions of the experts where necessary.

To assist in preparation of a PPER which is required in September for the TPR in December.

To revise the TOR for a future Joint Evaluation Mission.

To prepare a mission report recording all decisions taken and recommending the actions necessary, and by whom, to expedite further implementation of the project.

## Programme

The mission was combined with a mission to the TRSI in Ho Chi Minh City, which is receiving assistance through project DP/VIE/86/015.

## Counterparts

The NPD is Dr Mme Nguyen lai Bau who is now also the Director of the TRI.

## Meetings, Seminars, etc.

Frequent meetings were held with NPD and her staff. All outstanding matters were fully discussed.

The members of the following fellowship groups were de-briefed:

Textile Testing OE Spinning Blowroom

All the items of equipment supplied were examined.

The status of the project was discussed with the SIDFA.

## Inputs

The project inputs are elaborated in Annex 1.

### Budget

The budget had been increased by USD119.169 following the TPR. We were informed that the Government had authorised UNDF to increase the budget by a further USD 23,516 to cover the cost of the Tensorapid tester. The latest revision is attached as Annex B.

Documentary Guiputs

Progress report dated July 1990 (Annex 1).

Draft PPER which is required in September for the next TPR on 13 December 1990.

Revised Terms of Reference (TOR) for a future Joint Evaluation Mission.

Third Mission Report of CTA.

Schedules detailing the present status of the project as regards equipment, training and experts (Annexes 2,  $\mathbb S$  and 4 of this report).

A detailed work plan for the remainder of the project (Annex 5)

The latest revision of the Project budget (Annex 8).

Revised Job Description for the expert in Textile Testing and Quality Control Post 11-02 (Annex 6).

## V CONCLUSIONS

Taking into account constraints outside the control of the project management, reasonable progress has been made during the Project's active life.

Implementation of the project has been controlled to a large extent by having to wait for delivery of the 2 major items of equipment (OE spinning machine and Blowroom line). It was known from the start that the delivery schedules would be long (up to 16 months).

The equipment budget has been a problem all along due largely to the delay in starting implementation and the steep rises in equipment prices at that time. Sufficient funds have now been made available for all the essential equipment.

Implementation of the Project should be continued as outlined in this report in which case it is expected that the objectives will be reached within the intended life of the project ( $\mathbb{S}$  years from 8/8/88).

## VI ACKNOWLEDGEMENTS

The author wishes to thank all who participated in the work of this mission for their co-operation and valuable advice and in particular:

Dr Pham Hoang Ninh Director of the TRI (retired).
Dr Mme Nguyen Thi Bau NPD and Director of the TRI.

Mr J M Bonnamy SIDFA, UNDP Mr Tran Trong Phung Programme Officer, UNDP.

## PROGRESS REPORT DATED JULY 1990

### Government Contribution

In 1986, the approved budget for the Government contribution was about 17 million dongs. This has now risen to 2,152 million dongs by the end of 1990. This huge increase is partly due to inflation but mainly due to improvements in the buildings and the purchase of additional machines for the pilot plant which will complement the equipment supplied by UNIDD. Details of the Government contribution are given in Annex 7.

## Buildings

The TRI has provided a large laboratory to house the fibre and yarn testing equipment but the air-conditioning unit supplied through the project has not yet been installed.

The special room for the OE Spinner, which needs a clean environment to function properly, has been completed. It is being air conditioned by one of the units supplied by UNIDO.

The room to house the blowroom equipment is almost complete

It is hoped that the Government will make funds available in 1991 to allow the entire spinning department (except the blownoom) to be conditioned, as a controlled environment is essential for scientific work in spinning.

A small office block has been built in the pilot plant complex.

A new building has been constructed as a materials store and to accommodate other pilot plant equipment in the future.

The surrounding area is being cleared and concrete roadways constructed.

## Equipment

The fibre testing equipment is operational.

The GE spinner will be installed in August/September 1990.

The blowroom should be delivered in September and installed in October/November 1990.

Rooks and periodicals have been being delivered as planned. The monthly news letter has been improved. The subscriptions should be renewed for a further 2 years.

Details of the UNIDO equipment are given in Annex 2.

The Suvernment have provided the following stemp of equipment:

- 2 drawframes from the USSR (installed)
- i lab former i comber from Textima (not vet installed)
- 1 microcomputer
- I offset printing machine (for the News letter, etc.

Based upon the experience gained during the Study Tour and Fellowships in Appropriate Spinning Technology. the TRI have constructed a set of manually-operated spinning equipment which is now being installed in a village for trials. The hand-spinning equipment (Reg 8876) has therefore been cancelled.

## Training

The training programme of 2 Study tours (5 persons) and 5 fellowship groups (15 persons) has been successfully completed. Details of training are given in Annex 3.

### Expents

It was always intended to field the experts after completion of training and delivery of the equipment. Accordingly, all experts should be fielded during the remainder of 1990 or early 1991. Details of the experts are given in Annex 4.

#### Work Flan

The agreed work plan for the rest of the project is given in Annex 5.

#### Budgets

The UNDP budget was increased by USD 119,169 in accordance with a decision taken at the last TFR meeting. We have been informed that the Government intend to authorise a further increase of USD 23,516 to compensate for the decline in the value of the US dollar. The latest Project budget revision is attached as Annex 8.

The Government budget, which has not changed, is attached as Annex 7.

Yarn Testing and Certification for Export

After delivery of the Uster evenness tester and the Tensorabid, the TRI will have the capability of carrying out all the normal tests for quality certification to international standards.

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EQUIPMENT - Revised July 1990 (\* = Already Delivered)

Req No	Item	Supplier Cost(\$)	Remarks
88/1	Landcruiser + Spare parts	Toyota 16,704	*
88/2/1 /5	Digital fibrograph Fineness/maturity		*
/2	Fibre opener	SDL 6,022	<del>⊁.</del>
/3	Pressley Tester	Baer) 6,154	*
/4	Micronaire	Baer)	*
/6	Lab roller gin	Platt/SL 6,491	#
88/3	2xAir conditioner	BB/York 19,391	*
88/4/2	Blowroom line Tro	uetzschler 317,793	Del Sep 90
88/5/1	OE spinner Sch	nlafhorst 148,700	*
88/6	Hand spinning set	Cancelled	Made by TRI
88/7	PP copier	Kwan 1,538	*
88/8/1 /2	Evenness tester Strength tester	Uster <b>84,561</b> Uster <b>85,292</b>	
88/10	Books/periodicals	Munksgaard 2,395	Re-order

DP/VIE/86/014 Research and development on spinning short staple cotton

## TRAINING - Revised July 1990

Number	Name	Duration	Remarks						
FELLOWSHIPS									
Uster te	sting								
	Hung Nguyen Manh	1	Implemented 1989						
	Minh Nguyen Quang		Zellweger Uster						
Textile	testing								
	Dung Tran Thu	3	Implemented 1990						
31-04	Hai Pham Bich	उ उ उ	Bolton						
31-16	Thu Ha Hoang	3							
OE Spinn	ing								
31-08	Than Nguyen Kim	2	Implemented 1990						
	Duc Nguyen Minh	2	Schlafhorst						
Blowroom									
31-05	Ding Giap Le	1	Implemented 1989						
	Quang Nhiem Huynh	1	Truetschler, FRG						
31-17	Mich Tran Van	1	,						
Appropriate spinning technology									
	Minh Nga Tran		Implemented 1989						
	Chiem Tran Trong	3	India						
	Phong Pham Dinh	3 3 3 3 3	Extended to 3 m/m at						
	Dung Vo Thanh	3	request of UNDP						
	Chuyen Bui Thi (015)	3	•						

STUDY TOURS - Revised December 1989.

Research and Development (No 29)
32-01 France, UK & FRG 4x1 Implemented 1987

Appropriate spinning technology (No 52) 32-02 India & Australia 5x1 Implemented 1989

DP/VIE/86/014
Research and Development on spinning short staple cotton

EXPERTS - 1990 AND FUTURE - Revised July 1990

Post no	Title	m/m	Remarks
11-01	CTA	4	Dr R. Nield appointed. Next missions Oct 90, Mar 91 and Nov 91. Co-ordinate and share cost with Project DP/VIE/86/015.
11-02	QC/Testing	1+1	Mr J. Mitchell appointed. Field for 1 month Nov 1990.
11-03	Blowroom	(1)	Expected October 1990.
11-04	OE Spinning	(1)	Mr Sit Duen Tai fielded August 1990.
11-05	Appropriate Spinning Technology	1	Mr Sharma fielded August 1990. Extended 1 week.

<sup>( ) =</sup> included in price of equipment

# DF/VIE/86/014 Research and Development on spinning short staple cotton

## WORK PLAN - PROJECT INPUTS AND ACTIVITIES - Revised July 1990

Personnel  11-01 Chief Technical Adviser 11-02 GC/Testing 11-03 Blowroom Technician 11-04 Open End Spinning Expert 11-05 App/Spinning Technology  Fellowships  Fibre testing. Bolton		1989	1990	1991
11-02 QC/Testing 11-03 Blowroom Technician 11-04 Open End Spinning Expert 11-05 App/Spinning Technology  Fellowships  Fibre testing. Bolton 3x3m/m Blowroom. Truetzschler 3x1m/m OE Spinning. Schlafhorst 2x2m/m Uster Equipment. Uster 2x1m/m App/Spinning Technology 5x3m/m  Study Tours  Research & Development (29) 4x1m/m — App/Spinning Technology(52) 5x1m/m  Equipment  Fibre Testing OE Spinner Blowroom Yarn Evenness tester Tensorapid tester Hand Spinning Activities  Fibre testing OE Spinning Short Fibre Spinning R & D Design of A/T machines Manufacture of A/T prototypes Field testing of prototypes	Personnel			· · · · · · · · · · · · · · · · · · ·
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#### UNITED NATIONS

## UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANISATION UNIDO

## Job Description DP/VIE/014/11-02/J13102

Post title

Textile testing and Quality Control expert

Duration

1 month

Date required

1 November 1990

Duty Station

Hanoi with possibility of travel within country.

Purpose of project

To strengthen the Textile Research Institutes capability of conducting cotton fibre evaluation and spinning development work, with particular emphasis on the use of short staple cotton. This will enable the Institute to advise spinning mills on optimum processing conditions when using such cottons and to develop an improved hand spinning technology for use in rural areas.

Duties

The expert will work in co-operation with counterpart personnel and under the leadership of the CTA and will specifically be expected to assist the national staff to:

- check all project equipment is correctly installed and calibrated.
- 2. re-inforce the technical skills already acquired through fellowship training.
- organise the work of the laboratory and prepare job descriptions for the staff.
- establish testing routines in line with the best international standards.
- 5. evaluate Vietnamese and imported cottons.
- evaluate Vietnamese and imported yarns and fabrics.
- 7. begin to compile experience statistics.
- B. establish quality assurance & certification procedures for imported cottons and exported yarns.

Qualifications: At least 10 years experience in fibre, yarn and fabric testing and quality control and cert-fication for export. Wide knowledge of quality standards expected in importing countries.

Language

English

Background Information As in Job description for post 11-01.

DF/VIE/86/014
Research and Development on spinning short staple cotton

## GOVERNMENT BUDGET - Revised December 1989

		Units: Dongs x 1,000				
Ite	m	Original Budget	Actual 1989	Estimated 1990		
1.	Salaries of fellows					
	and personnel expenses	1,440	10,000	20,000		
2.	Value of existing equipment	11,000	600,000			
3.	Cost of new equipment	1,260				
	- Comber		400,000			
	- 2 Drawframes		320,000			
	- Microcomputer		12,000			
	<ul> <li>Offset printing macnine</li> </ul>		128,000			
4.	Installation of equipment		11,000	30,000		
5.	Manufacture of hand spinning					
	equipment		12,000	20,000		
6.	Buildings					
	Value of laboratory + plant		358,000			
	House for expert + training		30,000			
	Improvements to buildings	550	12,000	120,000		
7.	Raw materials and electricity	1,000	1,500	50,000		
8.	Miscellaneous expenses	800	2,500	5,000		
	TOTAL	16,650	1,907,000	245,000		

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