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DP/ID/SER.B/652 5 July 1989 ENGLISH

ASSISTANCE IN FURNITURE PRODUCTION TECHNOLOGY

SI/MAL/88/802

MALAYSIA

Terminal report*

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

Based on the work of a team of five experts

Backstopping officer: Antoine V. Bassili Industrial Management and Rehabilitation Branch

United Nations Industrial Development Organization

Vienna

^{*} This document has not been edited.

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1. INTRODUCTION

As a result of a request for technical assistance made by the Malaysian Timber Industry Board (MTIB), endorsed by the Economic Planning Unit and their letter of 25 may 1987 and UNDP, in their letter of 12 June 1987 and cable of 27 April 1988, UNIDO provided three man months of expert services under a project entitled 'Assistance in Furniture Production Technology' (project number SI/MAL/88/802).

Two teams of experts were fielded, the first comprised:

Antoine V. Bassili, a UNIDO staff member, who acted as team leader and covered topics of basic woodworking operations, production planning and control, plant layout, production flow and machine selection, product development, design for industrial production, packaging technology, and materials procurement and inventory control.

Horatio P. Brion, a consultant in design and use of jigs who covered topics of tooling and tool maintenance, design for industrial production, low cost automation, design and use of jigs, value analysis, computerization and documentation for industrial production.

Sinan Cinar, a consultant in production planning who covered topics of production planning and control, quality control and computerization.

They spent three weeks in Kuala Lumpur, from 15 January to 5 February 1989.

The second team comprised:

Jose Luis Albaiadejo, a staff member of the UNCTAD/GATT International Trade Center, who covered aspects of marketing of furniture and stayed in Kuala Lumpur for one week, from 3 to 7 Aporil 1989. He covered aspects of marketing of furniture and export trade, and provided statistical information on world trade in furniture, market information and information on distribution channels and contacts for new customers.

Peter C. Valk, consultant in export marketing of furniture who covered aspects of marketing of furniture in Europe. He stayed in Kuala Lumpur for two weeks from 3 to 14 April 1989. Mr. Valk covered aspects of pricing of furniture for export, markets for contract furniture and provided information on marketing channels in Europe, as well as advice on contacts for new customers.

The UNCTAD/GATT International Trade Centre provided the services of two of its consultants, Mr. Arthur Raymond, consultant in export marketing of furniture to the USA market, and William St. George Vernon, consultant in furniture production technology. Mr. Raymond

covered aspects of determining key design points for potential Malaysian exporters, and advised on marketing of semi-manufactured products; furntiure components; requirements of the USA market, including specifications for knock down residential furniture; finishing refinements and market research.

Mr. Vernon also covered the aspects of determining key design points for potential Malaysian exporters and advised on production and cost control.

MIDA (the Malaysian Industrial Development Authority lectured on 'comparative analysis of Malaysia in the production of furniture'.

During the stay of the first team, they visited a total of 21 furniture manufacturers, in the area (two in Johore State and one in Penang), diagnosed problems they encountered and provided ad hoc advice.

The lists of firms visited and persons met is given in Annex I.

They also provided assistance to some ten technicians from various plants during <u>ad noc</u> meetings at the MTIB headquarters, including advice to future tenants of the OLAK LEMFIT 'furniture village' (a specialized industrial estate) being established at Olak Lempit. This covered mainly aspects of plant layout and machine selection-including selection of kilns.

The team also lectured at two modules of a one week Workshop on Furniture Production Technology. The first module was aimed at supervisors, and the second module at production managers and production controllers.

Because of the success encountered, a programme for a third week was organized at short notice by MT.B. The programmes for all these activities are given in Annex II.

The lists of persons who attended the two modules are given in Annex III. Attendance at the lectures during the third week varied between 15 and 25 and changed daily.

The second team lectured on marketing aspects. The programme is also given in Annex II. The list of persons who attended this portion of the overall programme is also given in Annex III. (Both are referred to as 'module III'.)

At the request of the Marketing Director of MTIB, a lecture on Market Research was given by Mr. Valk on 10 April 1989.

Messrs. Valk and Albaladejo (assisted by Messrs. Raymond and Vernon) provided ad hoc assistance to the individuals from 16 firms listed in Annex I.

2. PRESENT SITUATION OF THE FURNITURE INDUSTRY

In the recent past (last 3-4 years) there has been a relatively rapid development in Malaysia's furniture industry. Not only has there been an increase in the number of firms engaged in production, but also the exports of furniture (both wood and rattan) have been increasing, as shown in Tables I and II hereunder:

Table I: Malaysian export of wooden furniture (million Ms)

1982	1983	1984	1985	1986	1987
15.1	10.7	10.5	12.5	20.5	45.3

Source: Statistics Department

The major two clients in recent years were the United States of America and Singapore, each representing about 25 percent of the above figure, followed by Australia and the United Kingdom (each about 10 percent).

Table II: Malaysian exports of rattan furniture (million Ms)

1982	1983	1984	1985	1986	1987
2.2	1.7	4.2	5.5	7.0	11.

Source: Statistics Department

Major clients were Singapore, Australia, the United Kingdom and Sweden.

The ten year industrialization plan, covering the period 1986-1995 foresees an increase of furniture exports to attain MS 400 million by 1995. For this target to be achieved, Government authorities have, in the past few years, devoted more attention to providing assistance to For example, MTIB's emphasis in the past was to transfer information and know-how on marketing furniture to potential exporters. Recently they have recognized that in order to enter an export market, the Malaysian exporter has to have an acceptable product (sound construction, involving technology, be aesthetically pleasing, be of good quality - within its price range - and, last but by no means ieast, be produced using appropriate technologies, in sufficiently large series and with a high productivity resulting in it being sold at a competitive price). To this effect they have neld a one week international seminar on furniture production in August 1988. held the Workshops on furniture production technology, object of this project, as well as organized Malaysia's first furniture design competition. Six man years of technical assistance has also been obtained from Italy in furniture production technology, design and surface finishing technology.

In the past few years MTIB has organized and sponsored a Malaysian stand at Europe's largest furniture exhibition, held in January of each year in Cologne, Federal Republic of Germany. Of a total of eleven firms that exhibited at the 1989 Cologne Furniture Fair, no less than ten availed themselves of this opportunity and participated in the stand sponsored by MTIB and only one had an independent stand. According to a report on the results of the Malaysian participation, orders totalling M\$ 11 million were secured.

Another major development is the decision of the Forest Research Institute of Malaysia (FRIM), situated in Kepong, to involve itself with testing of furniture. To this effect they have already acquired the basic testing equipment, and were installing it at the time of the missions.

The authorities have realized that most of the industry is at a 'mechanized craft' level, and to this effect they have developed a specialized industrial estate ('furniture village') at Olak Lempit, and encouraged industrialists to move to it. Many existing companies are seriously considering relocating, while newly created ones will also establish their production facilities there.

All the above are positive measures taken by the authorities to help the industry. Unfortunately, the latter are, in many instances, still thinking as craftsmen, willing to produce any product in any quantity and have not yet realized the benefits of serial production, a technically qualified work force (especially at the middle management and supervisory levels), sound layout, good internal transport and above ail, collaboration between firms, be it in production or marketing.

One positive development by the industry has been their acceptance of rubberwood (Hevea Brasiliensis) as a raw material for furniture - often replacing Ramin which has out-priced itself of the lower cost products market. To succeed in this they have mastered the problems related to its successful processing, namely those related to its preservation and drying.

Many more firms have entered the export market, and it represents an increasing percentage of their turnover, but many of these have not yet specialized, accepting to produce any product from among a wide range, resulting in their investing in a wide range of small capacity machines, a good portion of which are unutilized.

3. FINDINGS

The majority of the industry is still at a 'mechanized craft' level, not because of the range and sophistication of equipment installed but because of small series, lack of specialization, lack of planning production and controlling it, poor layout, low utilization of installed capacity, etc.

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Generally speaking, working conditions for assembly are poor, too few work stations are used and pneumatic aids (including low cost automation) virtually non-existent. Similarly limited use is made of production jigs, and even less of assembly jigs.

Another point that needs correction relates to safety: most machines do not have the safety devices mandatory in developed countries.

Quality control still tends to be done by inspectors at given points in the flow. The industry must realize that quality is built into a product and that there is no point in continuing to add value to a product which in the end will be rejected. Quality control therefore should be the responsibility of each and every machine operator.

Layout in many factories is still haphazard: there is considerable cross-flow, and not sufficient storage spaces for intermediate components where it is needed.

Similarly, internal transport is also not well organized. It exists in some factories, while in others certain components are transported on pallets while others are transported manually.

Technically qualified middle management and supervisors are to all intents and purposes non-existent.

Preventive maintenance of machines seems to be more the exception than the rule.

Batches are small resulting in uneconomic production runs.

Costing is not accurate and wastes of sawnwood are very high.

Not enough importance is given to saving sammwood at the crosscut by cutting all components having the same cross section needed over a period of time. This allows more permutations and combinations for each plank length and results in larger savings of sawnwood. Management has not realized the potential savings that can be achieved in this work station and consequently invariably has not invested in more sophisticated tables at the cut-off saw nor placed more qualified operators to man this strategic work station.

Similarly, rough cuts have too large allowances, be they in sawnwood, wood based panels or veneers.

Surface finishing is not sophisticated: a very limited range of finishes is used and equipment used tends to be of the simplest types. (None of the twenty one plants visited during the first mission had a curtain coater.)

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Supervisory personnel has not recognized the importance of wood drying - especially for use in products that will be exported to other, dryer, climates.

In many factories 'housekeeping' is poor (floors are dirty, offcuts lie on the floor, etc.) and illumination in some work stations is insufficient to ensure the production of qualify furniture.

Sanding is often done only manually, without the use of pneumatically or electrically vibrated pads (or even hand pads).

While dowels are increasingly used, workers do not understand the principles involved, resulting in possible weak joints. Dowels are invariably made of Ramin or Rubberwood, irrespective of the strength and density of the species being jointed.

Products are developed and marketed individually. No attempt is made to utilize components from one product in producing another, nor are products analyzed before production begins to ensure that they can be simplified. The result of this policy is that production planning (where it exists) is more complicated than it could have been had more components been used for more than one product.

In many plants, costing is rudimentary, for example no value is allocated to offcuts from panels, the components obtained bear the full cost of the panel; if the offcuts are stored and re-used they will be fully priced again.

Among the inputs used, only sawnwood and plywood are commonly checked for quality and quantity. Members of the mission noted that surface finishing materials are accepted and used in production with no checks being made as to quantity, viscosity and solids content. No statistical analysis methods are used for any quality control.

In factories that veneer panels, no checks are made on the quantity of glue applied, resulting in wastage.

4. RECOMMENDATIONS

A. Addressed to the Malaysian Timber Industry Board (MTIB)

- 1. MTIB should follow up its assistance to the industry that it provided under this project through specialized courses, of varying duration, addressed to future specialists and/or skilled craftsmen from industry in the following fields:
 - (a) low cost automation;
 - (b) Design and production of jigs and work stations;
 - (c) Production planning and control;
 - (d) Product design and development for industrial production;

- (e) Quality control for serial production;
- (f) Time study.

The above are to be mainly theoretical courses, which would nevertheless need some plant visits and demonstrations.

The following two topics, however, call for in-plant training since practical work plays a predominant role:

- (g) Modern surface finishing techniques;
- (h) Tool maintenance.

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2. MTTB should continue sponsoring national furniture design competitions. Eventually, well known foreign furniture designers, active in the markets that Malaysia wishes to penetrate, should also be included in the Jury.

This occasion should also be used to serve as venue for a short course on design of furniture for industrial production, accessible to all participants in the competition, and to outsiders.

- 3. MTIB should continue sponsoring a lational stand of Malaysian furniture at leading international furniture fairs in the markets it wishes to penetrate.
- 4. MTIB should compile appropriate documentation including written publications on all aspects of industrial production of furniture and disseminate it to the industry.
- 5. An MTIB technical staff member should be trained in equipment classification and selection, and a data bank covering these topics as well as auxiliary materials used by the furniture industry should be compiled and made available to the industry.
- 6. Similar data banks should be created by MTIB to cover surface preparation and finishing materials, hardware fittings and marketing of furniture for export.
- 7. MTIB should organize study tours to large international specialized woodworking machine fairs (such as the biennial LIGNA in Hannover, INTERBIMALL in Milan and the shows in Atlanta and Nagoya) for technical managers from the Malaysian furniture industry. Such tours should be conducted by competent, impartial, internationally recruited consultant(s) to provide members participating in the study tour with guidance on equipment best suited to Malaysian conditions, and be available to advise in any negotiations.
- 8. MTIB should conduct a census of the country's furniture manufacturers to better identify their problems and potentials for development. Such a survey could help pin-point problems and their relative perceived (and real) importance, and lead to a more effective utilization by MTIB of its resources in its programme to assist the industry.

International expertise would be needed to help elaborate the questionnaire and then, once circulated and the returns have been compiled by MTIB's staff, international expertise would again be needed to assess the results.

9. Because design seems to be the major problem for many starting Malaysian furniture exporters, the MTIB should put more effort in collecting market information from the main importing markets in the USA and Western Europe (FRG, UK, the Netherlands, France), such as Trade journals, mail order catalogues, leaflets, flyers, etc., on a regular basis.

This information should be up to date.

Therefore a continual contact with, for instance, trade organizations or consultants could be very effective.

Staff members of MTIB responsible for this task should be able to read fluently this market information or journals in foreign languages, such as German, French and Spanish.

10. Since the furniture village of Olak Lempit is operational, MTIB could encourage the participants in setting up a Joint Marketing Company. Establishing a marketing company is very complex, but should start at the initial phase of the village and before individual export efforts are made. Support and assistance of experts with a long experience in joint marketing and export combinations are a prerequisite for the success of this company.

B. Addressed to the Forest Research Institute of Malaysia (FRIM):

- 1. FRIM should pursue its work on the machining and finishing characteristics of the commercially less acceptable Malaysian species to facilitate their acceptance and use by the industry.
- 2. FRIM should, in close collaboration with MTIB and SIRIM (Standards and Industrial Research Institute of Malaysia), establish national standards for furniture and its inputs.
- 3. Once the furniture testing laboratory has been established at FRIM, and national standards for furniture have been enacted, steps should be taken to establish a national quality label for furniture.

C. Addressed to the industry:

1. The two existing furniture manufacturers associations should take a more active role in catering for the needs of the industry and in representing it vis-a-vis the various government bodies responsible for its regulation and development.

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- 2. The Associations should establish a data bank of potential subcontractors to other firms from among its members. This should contain information on existing excess capacity for each operation, and conditions of making it available to other firms. This information once compiled should be kept up to date and circulated at regular intervals to all the Association's members.
- 3. The industry should recognize that it has to rely on a motivated, educated and technically competent technicians and supervisors at the middle management level. To this effect, it should recommend to the government the modification of its vocational training programme to train machine woodworkers (as against carpenters/joiners) and corresponding supervisory staff. Since this is a long range programme, and because of moral commitments to existing staff at all levels, they should also organize (or have organized by government bodies for them) intensive courses in topics of special interest for these categories of personnel, and release them from their normal tasks to enable their attendance. (See recommendation No. 1 addressed to MTIB.)
- 4. Increased use should be made of free-lance furniture designers be they Malaysians or foreigners.
- 5. Many Malaysian furniture exporters try to export a wide range of products instead of concentrating on one or two products, or product groups. It is impossible to be compettive in garden furniture and dining rooms and bedrooms and upholstered furniture and kitchen utensils. Concentration on one product group will be advantageous. It is much easier for customers abroad to identify a supplier for his collection and quality if this supplier offers a small and compoact product range.

ANNEX I

LIST OF FIRMS PROVIDED WITH AD HOC ASSISTANCE AND PERSONS MET

A. During the first mission (15 January to 5 February 1989)

Name of firm and town	Range of products	Name of person	Function	
Prai Malaysia Rattan and Wood Industries	Kitchenware (bowls, etc.)	Syed Azhar Barakbah	Manager Corp.Affairs	
Sdn. Bhd. 13600 Prai (Penang)	(tours, ecc.)	Wong Tan Fong Ms. Diana Choi	Production Mgr.	
Kim Teck Lee Timber Trading Sdn. Bhd. 58200 Kuala Lumpur	Doors, occasional furniture, shelves etc.	Lee Lum Seng	Director	
Cheong Hing Bros. Inds. (M) Sdn.Bhd. 47100 Petaling Jaya (Selangor)	Folding stools KD folding chairs	Hung Chi Yuen	Production Mgr.	
Asman Sdn.Bhd. 68100 Batu Caves (Selangor)	Contract furniture (to order)	Haji Tshak Haji Abdul Ghani	Managing Director	
Mutex Sdn.Bhd. 72200 Batu Kikir	Furniture compo- nents & mouldings	Mansur Bin Yunis	Factory super-	
(Negri Sembilan)	naira a maranga	Razali Bin Haji Ismail	Assistant factory supervisor	
Syarikat Super Wood Products 42000 Pelabulin Kelang (Selangor)	Household furni- ture (dining & living room sets)	Sunny Tee Soon Peng	Owner/manager	
SPPIK Kayu Nilai Sdn. Bhd. 70450 Seremban (Negri Sembilan)	Occasional furni- ture	Ahmed Suradi Adnan	Manager	
Len Cheong Furniture Sdn. Bhd.	Dining rooms, components,	Lo Siew Koon	Managing Di- rector	
70450 Seremban (Negri Sembilan)	doors and balusters	Richard Seah	Office Assis- tant	
Woodlink Furniture Sdn. Bhd.	Panel furniture (bedroom sets)	K. M. Chong	Managing Di- rector	
41050 Kelang (Selangor)	,	Ms. Leong	Office staff	

Practiwood Sdn. Bhd. 41050 Kelang (Selangor)	Chairs and bed- room sets	Towny Thong	Managing Director
Hamid Perusahaan Tukang Pahat (Johore)	Furniture	Ibrahim Mahid	Technical Advisor
Multination Sdn. Bhd. Klang (Selangor)	Chairs	Ng Kok Chan Ng Kok Wing Danny A. Ng	General Mgr. Production Mgr. Marketing Mgr.
Hentuc Industries Sdn. Bhd. 81100 Johor Baru (Johor)	Panel furniture	Simon A.Y. Lee Ten Kok Teong	General Mgr. Managing Director
Yeli Bros. Woodworks (M) Sdn. Bhd. 81707 Pasir Gudang (Johor)	Components for coffee and side tables	Kuo Chi-Hsin	Executive Director
Danstil 68100 Selayang Baru (Selangor)	Desk accessories Garden furniture	Danny Chin	Gwner
Confur (Selangor) Sdn. Bhd. 47300 Petaling Jaya (Selangor)	Kitchen furniture Shoe racks Video racks	Jensen Tan Ms. Angela L.C.Lee	Factory Co- ordinator Fublic rela- tions/projects
Woo Wai Kee Enterprise Sdn. Bhd. 43207 Cheras (Serangor)	Chairs and outdoor furniture	Woo Chark Kum	Managing Director
Perangsang Delima Sdn. Bhd. 42009 Port Klang (Selangor)	Household furni- ture	Teo Leng Seng Jaafar Ismail Mohamed Jani Bin Din	Production Mgr. Operations Mgr. Operations Exe- cutive
General Lumber Furni- ture Sdn. Bhd. 41400 Klang (Selangor)	Doors, Beds, occasional tables	Ong Seng Guam G. Sugumaran	Production Mgr. Personnel Officer
Wan Rahim & Co. (Desa Cane) 60000 Kuala Lumpur	Rattan furniture	Helmi Hohamed	Owner

Penchala General Trading Co. Kuala Lumpur

Rattan furniture Mahat Bin Wane

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Managing Director

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LIST OF FIRMS PROVIDED WITH AD HOC ASSISTANCE AND PERSONS MET DURING THE SECOND MISSION (3-12 April 1989)

Firm name

Seni Dian Kraft Sdn. Bhd Diong Loh (Lim Eng) Sdn. Bhd. Afiah Sdn. Bhd. Malayan Ind. & Engineering Co. OTP Akitek Commercial Interiors Shd. Bhd. Sppik Kayunilai Sdn. Bhd. Setron Timber Inds. MK Furniture Sdn. Bhd. Desa Cane Malruwood Sdn. Bhd. Freesiakraft

Zek Cane Trading Guthrie Malaysia Trading Corp. Tawei (M) Sdn. Bhd. General Lumber Wood Ind. Sdn. Bhd.

Person met

Zahari Bin Ayub Lin Lee Him K. K. Wong Mohd. Yusof B. Abd. Mutalib Ooi Theam Poh Steven Tay Seng Hong Ahmad Suradi Rolbert T. L. Quah Ahmad Yusri B. Md. Amin Helmi Amin G. Krishnan Zainul Akmar Bte Ahmad Mohamad Fauzy Abd. Wahab Haji Zainal Shukor Osman Haji Ismail Sunny Ter Soon Peng Wahab Abdul Razak

United Nations Development Programme

David Thorup, Deputy Resident Representative

Richard van den Berg, UNIDO Junior Professional Officer

Malaysian Timber Industry Board (MTIB)

Baharuddin Haji Ghazali, Director General
Chew Lye Teng, Director, Technical Services
Lim Choon Liat, Technical Services
Malipar Atan, Technical Services
Abdul Aziz Jamaluddin, Technical Services
Kamaruddin Othman, Technical Services
Khairi Abdul Karim, Technical Services

Roslan Hassan, Technical Services

WORKSHOP ON FURNITURE PRODUCTION TECHNOLOGY

MODULE 1

4 FURNITURE PRODUCTION TECHNOLOGY FOR SERIAL PRODUCTION

3780

: 23RD JANUARY 1989 - 28TH JANUARY 1989

TERUE

a MING ROOM 3, NOTEL MING COURT (Please take note that the venue for the programme on 28th January 1989 will be at MTIB's Conference Room, 1st Floor, Bangunan Sateras,

Jalan Ampang, Kuala Lumpur).

TARGET GROUP : SUPERVISORS

TIME	23/1/1989 Yadhom	\$4/1/1989 Yadzsvs	25/1/1985 Wednesday	26/1/1989 THURSDAY	27/1/1989 Eriday	28/1/1989 BATURDAY
8.00 - 9.98	Registration	Lecture % Sasie Woodvorking Operations (Inclu	Locture 5 Design For Indus- trial Production	Lecture 7 Design And Use Of Jigs . {Production }	Leeture 8 Tooling And Tool Maintenance	Lecture 11 Quality Control
9.00-10.00	Opening Ceremony	ding Machinery, Equipment & Process Flow)		Assembly)	Speaker: S.Cinar M.Brien (UNIDO)	Speaker:S.Cinar (UNIDO)
10.00-11.00	Leature 1		-			Leeture 12
19.00-13.00	Solld Vood As A Saw Heterial In				Leeture 9	Packaging Material and Technology
	furniture . Production				Machine Maintenance	(Including exhibition) Speaker:A.Bessili (WIDO)
11.00-12.00	{Including Exhibition}					Clesing Coresony
	Speaker: L.T.Chev (MTIB)	Sperkersi.Bessili (UMIDO)	Speaker:: M.Brion A.Bassill (UNIDO)	Speaker:W.3rien (UNIDO)	Speaker: E.S. Ne (FRIM)	
12.00- 1.00	· · · · · · · · · · · · · · · · · · ·	•				1
1.00- 2.00						
1.00- 2.00	Leeture 2 Youd Drying	Visit Furniture Produc-	Leature 6 Production	Yorkshop j Group York On		ļ
2.00- 3.00	Speaker: K.T.Choo (PRIM)	tion Using Solid	Planning And Control	a)Process flow,		
2.00- 3.00		(Machinery, Equip-		bliff And Control	Locture 10	
	Lecture 3 Panel Products As	(NORCH? MONTON LLINERS			Surface Finishing (Including Desons- tration)	
3.00- 1.00	Raw Materials In	PRODUCTS SON, MIC.)	77		(COMMAN ENTERPRISE	ł
4.00 - 5.00	Furniture Production (Including Exhibi- tion) Speaker:W.C. Wong (PRIM)	Coordinator: HTIB 8.Cinar (UNIDO)	Speaker:A.Bessili (UNIDO)	Coordinater: N. Brien A. Bassili (UNIDO)	Speaker:John Wong (Mirotone)	

PROGRAME

ANNEX II

WORKSHOP ON FURRITURE PRODUCTION TECHNOLOGY

HODULE II

: FURNITURE PRODUCTION MANAGEMENT

DATE

1 2380 JAMUARY 1989 - 28TH JAMUKRY 1989

VENUE

MING ROOM &, MOTEL HING COURT (Please take note that the vague for the programme on 28th January 1989 will be at MTIR's Conference Room, lat Floor, Bangunan Sateras, Jalan Ampang, Kuala Lumpur).

PRODUCTION MANAGERS AND PRODUCTION CONTROLLERS

TARGET CHOUP

TIME	·	53/1/1989	29/1/1989 TUESDAY	25/1/1939 WEDNESDAY	26/1/1989 THURSDAY	27/1/1989 FRIDAY	28/1/1989 SATURDAT
8.00 -	9.00	Registration	Visit 1 Plent Layout, Process Flow And	Lecture 4 Production Planning And Control	Lecture 5 Surface Finishing (Including	Locture 7 Haterials Procurement And Inventory Control	Lecture 10 Quality Control
9.00 -	10.00	Opening Coronony	Highlinery Selection (PERAMORANO DELIM 50H. BIO.)	Personstration) (COMEAT SHIELDINGS - SOM, SHO.)		SpeakeriR. Brien A. Bassili (VIIDO)	Speaker: S.Cinar (UNIDO)
10.00 -	11.00	Lecture 1 Product Selection]		Leeture 11. Packaging Haterial
		And Development				Lecture & Employer-Verker Belationship speaker it shour Meat.	and Technology (Including exhibition) SpeakersA.Baseili (UNIDO)
11.00 -	12.00	Speaker (A. Bassill (UMIDO)	Coordinator: M.Brion 8.Cinar (UMIDO)	Speaker: 3. Ciner (UNIDO)	Coordinater:John Wong (Miretene)	Locture 9 Industrial Hygiene Speakerifesh Abd Hoold Michigan Dest	Closing Coresony
12.00 -	1,00					ti-called bases	
1.00 -	2.00	Lecture 2 Flant Layous,	Lecture 3 Lew Cost Automation	Verkshep 1 Greup Vork On	Lecture 6 Product Costing		
2.00 -	3.00	Process Flow And Machinery Solection		Production Planning And Control		Panel Blocussion	
3.00 -	٠,٥٥						
			ſ			Canadiantas, mas	
4.00 -	5.00	SpeakeriA.Basell1 (UHIDO)	Speaker: N. Brien (UNIDO)	Coordinator:S.Cinar (UNIDO)	Speaker;Ahmad Haziree (Corinthian Ind.)	Coordinator: HTIB R.Brion A.Bassili S.Cinar (UNIDO)	

MORKSHOP ON FURNITURE PRODUCTION TECHNOLOGY

PROGRAMME OF ADDITIONAL LECTURES

DATE: 30 January to 4 February 1989
VENUE: MITB, CONFERENCE RECOM, 1st FLOOR BANGINAN SATERAS
JALAN AMPANG; KIALA LIMPUR

TARGET CROUP: PARTICIPANTS OF HODULES I & II

TDE	30.1.89 HONDAY	31.1.1989 TUESDAY	1.2.1989 WEDNESDAY	2.2.1989 THURSDAY	3.2.1969	4.2.1989 SATURDAY
^*37 to 1000		Plant layout, process flow and machinery selection	Visit to Perangsang Delima Sdn. Bhd Lecutre on jigs Speaker: H.P.Brion	Overall review co- vering wood drying kiln specifications, gluing, construction techniques, produc- tion planning, etc.	Computerisation in the furniture injdustry	
1000 to 1015						
1015 to 1215		Group work on design of jigs				
				Speaker: A.V.Bessili	Speakers: H.P.Brion S. Cinar	
1215–1400						
1400 to 1600	Visit to FESTO DIDACTIC:Introduction to courses given	Group work on design of jigs	Documentation for industrial pro- duction	Value analysis		
1600 to 1615			e de relation de la la literatura de la la company de la c	***************************************		
1615 to 1730	Speaker: John Chong	Presentation of group work	Speaker: H.P.Brion	Speaker: H.P.Brion		

N.B. All day, 1.2.1969 at Perangsang Delima. All day on 2.2. lectures A. V. Bassili, a.m., H. P. Brion p.m.

WORKSHOP ON FURNITURE PRODUCTION TECHNOLOGY - JOINTLY ORGANISED BY MTIB & UNIDO

HODULE III : Harketing and Harket Promotion

DATE : 3rd. - 5th. April 1989

11 1111

VENUE : MTIB's Conference Room

1st floor, Bangunan Sateras, Jalan Ampang

Kuala Lumpur

DATE	3/4/89 MONDAY	4/4/89 TUESDAY	5/4/89 WEDNESDAY
0.30 - 9.00	Registration	Lecture 4 Furniture markets in Western Europe Speaker: P.J. Valk	Lecture 7 Key design points for Malaysian furniture exporter
9.00 - 10.0 0	Opening Ceremony Enzik Baharuddin Lecture 1		Speaker: A. Raymond W.S.G. Vernon
19.00 - 11.00	Comparative advantages of Malaysia in the production of furniture Speaker: Qoi Seng Mock	Continuation of Lecture 4	
11.60 - 12.00	Lecture 2 Marketing and export Trade in furniture (World analysis and	Lecture 5 Karket Research Speaker: J.L.Albaladejo	Continuation of Lecture 7
12.66 - 1.00	existing opportunities) Speaker: J.L.Albaladejo	Joint Export Marketing	
1.00 - 2.00			
2.30 - 3.00	Lecture 3 Pricing of furniture for export Speaker: P.J. Valk	Lecture 6 Documentation for export Speaker: K.H. Tong	PANEL DISCUSSION
3.30 - 4.00			Closing Ceremony
4.50 - 4.30	DISCUSSION	DISCUSSION	

ANNEX III

LIST OF PARTICIPANTS MODULE I - FURNITURE RPDOUCTION TECHNOLOGY FOR SERIAL PRODUCTION (23 - 28 JANUARY 1989)

Organization

Name of participant

Creation Furniture Manufacturing Sdn. Berhad Lot 17485, Jalan Dua, Taman Selayang Baru 68100 Selayang SELANGOR DARUL EHSAN

Eu Hong Chew

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Nik Fadzil Nik Mohammed

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Tiga Segi Sdn. Berhad 62-3C, Batu 2 1/2, Jalan Kelang Selangor Darul Ensan S. Sundaresan

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Multi Nation Sdn. Berhad Lot 313, Kampung Batu Belah Selangor Darul Ehsan

Ng Sing Ban

Lamico Interior Sdn. Berhad No. 9. Bengkel MPKT Kawasan Perindustrian Gong Badak Jalan Batu Rakit P. O. Box 42 20700 Kuala Terengganu Terengganu Darul Iman

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Catherine L. Woo

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Syarikat Yakin Bina Lot 4632, Blok A Jalan 57, Selayang Baru 68100 Batu Caves Selangor Darul Ehsan

Mohd Bakri Harun

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Institut Penyelidikan Perhutanan Said Ahmad Malaysia (FRIM) 52109 Kepong Selangor Darul Ehsan

Tel.: 03-6346233

SIRIM P. O. Box 35, MIDEC SIRIM 40700 Shah Alam Selangor Darul Ehsan Rosli B. Mohtar

Tel.: 03-5591630, ext. 1819,1843

Sim Bok Furniture Industries Sdn.Bhd. Lot 11, Kawasan Perindustrian PKNS 68100 Batu Caves Selangor Darul Ehsan

Yap Ban Yam

NOTES IN A CONTROL OF A CONTROL

Perangsang Delima Sdn. Berhad Peti Surat 201, Kawasan Perindustrian Pandamaran 42009 Pelabuhan Klang Selangor Darul Ehsan Kamaruddin B. Ibrahim

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Syarikat Tiong Sheng 27 Lorong Bunga Melati 2A Taman Maju Jaya 56100 Kuala Lumpur Siau Yuei Wan

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Lembaga Latihan Perindustrian Persijilan Ketukangan Kebangsaan (Kementerian Buruh) Tingkat 6, (Level 7) Blok B Jalan Damanlela Pusat Bandar Damansara Damansara Heights 50430 Kuala Lumpur Md. Dali B. Mohamad

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Azrah Furniture No. 16, Tingkat Bawah Bangunan Aked Mara Jalan Reko 43000 Kajang Selangor Darul Ehsan Mohd. Azani Hj. Abd. Rahman

Tel.: 03-8366766

Syarikat Ideal Furniture 7268, Jalan 6, Taman Selayang Baru 68100 Batu Caves Selangor Darul Ehsan

THE THE TOTAL OF BOTH THE TAX AND THE TOTAL OF THE TOTAL

Richard They Huwi Ming

Tel.: 03-6183422

General Lumber Wood Inds. Sdn. Berhad 4 1/2 Miles, Jalan Kapar 41400 Klang Selangor Darul Ehsan Zolipeli B. Md. Yusof

Koda Woodcraft Sdn. Berhad PLO 18, Senai Industrial Estate 81400 Senai, Johor Bahru Johor Darul Ehsan Koh Kiang Seng

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Majlis Amanah Rakyet Tingkat 17, Bangunan Mara Jalan Raja Laut 50690 Kuala Lumpur Abdul Rashid B. Mohd. Said

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Tel.: 03-=7570355/7550733

Perbadanan Kemajuan Kraftangan Malaysia Mohd. Mokhtar B. Lop Ahmad No. 9, Tingkat 9, Wisma Kraftangan Jalan Tun Perak 50050 Kuala Lumpur

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Mutex Sdn. Berhad Batu 36, Jalan Pahang 73200 Batu Kikir N. Sembilan Darul Khusus Mansol Yunus

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Abd. Halim Hamid

Tel.: 7919129

Norfaaam Sdn. Berhad 36A, Jalan Radin Tengah Bandar Baru Seri Petaling Selangor Darul Ehsan Muhammad Hj. Kasim

Tel.: 03-9584859

Rasa Corporation (M) Sdn. Berhad 17th Floor, MUI Plaza Jalan P. Ramlee 40250 Kwala Lumpur

Ting How Neing

LIST OF PARTICIPANTS MODULE II - FURNITURE PRODUCTION MANAGEMENT (23 - 28 JANUARY 1989)

Organization

Name of participant

Commercial Interior Sdn. Berhad Lot 1563, 13 1/2 Mile, Jalan Kepong 47000 Sungei Buluh Selangor Darul Ehsan

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Jaialudin Hj. Abd. Aziz

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San Yeh Furniture Sdn. Berhad Lot 106A, 5 1/2 m.s. Sri Lalang 86000 Klang Johor Darul Takzim

Wong Kai Sun

Tel.: 07-721492

Teong Ah Furniture Mfg. Sdn. Bhd. Lot 4675, Selayang 68100 Batu Caves Selangor Darul Ehsan

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Syarikat Tiong Sheng 27, Lorong Bunga Melati 2A Taman Maju Jaya 56100 Kuala Lumpur

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Sim Heok Choh

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Sim Bok Furniture Ind. Sdn. Bhd. Lot 11, Kawasan Perindustrian PKNS 68100 Batu Caves Selangor Darul Ehsan

Mrs. Yap Ban Woon

Tel.: 03-6897305

13020 Butterworth

United Woodwork & Const. Sdn. Bhd. Mah Kong Chee 270 Sungei Puru

the control of the co

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STRIM P. O. Box 35 Midec SIRIM 40700 Shah Alam Selangor Darui Ensan

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Yap Choy

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Lim Hoe Lee

THE FOREIGN CONTRACTOR OF THE PROPERTY OF THE

Tel.: 06-714533

Tahtec (M) Sdn. Berhad 238 Lorong Perak 10 Kawasan Perusahaan Mergong 11 05150 Alor Seter Kedan Darul Aman

Mond. Salehuddin B. Mond. Idris

Tel.: 04-734295

SPPIK Kayunilai Sdn. Berhad Lot 70, Kawasan Perusahaan Senawang 70450 Seremban N. Sembilan Darul Khusus Koh Kar Hin

Tel.: 06-771316

Confur (Sel) Sdn. Berhad 40 First Floor, Jalan SS 2/61 47000 Petaling Jaya Selangor Darul Ehsan

Jansen Tan

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25740 Kuantan
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Sazali B. Hashim

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Law King Nguong

A DECEMBER 1980 OF THE STATE OF

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PROTEC Lot 1533/14, Jalan Besar 14100 Simpang Empat Saberang Prai Selatan Butterworth Abd. Karim Nor

Tel.: 04-526263

MK Furniture Sdn. Berhad Lot 483, Jalan Perusahaan 3 Bandar Baru Sungai Buloh 47000 Selangor Darul Ehsan Zahidi Ahmad

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Wan Rahim & Co. Rattan Manufacture and Export Lot 876, Zone F Kg. Kayu Ara Damansara Utama 60000 Kuala Lumpur Helmi Mohamad

Tel.: 03-7170585

Colonia de la la colonia de la

LIST OF PARTICIPANTS MODULE III - MARKETING AND MARKET PROMOTION (3 - 5 APRIL 1989)

Organization

Name of participant

Sani Dian Kraft Sdn. Berhad Kaw. Perindustrian Nilai 71000 Nilai N. Sembilan Darul Khusus

Zahari bin Ayub

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Afiah Sdn. Berhad No. 16, Jalan Cemur Off Jalan Tun Razak 50400 Kuala Lumpur K. K. Wong

TO THE METERS OF MALE AND MADE A STATE OF THE METERS OF THE METERS OF THE OTHER PARTY.

Tel.: 03-4426827

Beta Design Sdn. Berhad 16-22A, 153 Lot 1995 Batu 6 1/2, Jalan Puchong 58200 Kuala Lumpur Stave Lew Kheong Hoong

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World Gazer Promotions Sdn. Berhad M. Dorairaj a/l Muniandy 116, 4th Floor, Jalan Tuanku Abd. Rahman 50100 Kuala Lumpur

for the form of the first term of the first term

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Metro Hardwood Sdn. Berhad 88A, SS 14/1 47500 Subang Jaya Selangor Darul Ehsan Victor Poon Kuan Yooi

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Zek Cane Trading 9, Jalan 2, Taman Cempaka 68000 Ampang Selangor Darul Ehsan

Hg. Zainal Hj. Shukor

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Choice Cane (M) Sdn. Berhad 31, Jalan Puchong, Petaling 47100 Selangor Darul Ehsan

Jenny Wong

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Ahmad Suradi Rosli Abu Bakar

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Robert T. L. Quah

Tel.: 03-274490

Chop Nam Seng Woodwork Sdn. Berhad Lot 465/6, Sungai Udang 41250 Klang Selangor Darul Ehsan

Raymong Siew

Tel.: 03-=3315236

Decor Wood Inds. (T) Sdn. Berhad Box 348, Suite 5.102-7 5th Floor, Wisma Central Jalan Ampang 50450 Kuala Lumpur

Ong Kah Chin

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Lee Hin Savmill Sdn. Berhad 60, Main Road Bukit Pasir Muar Johor Darul Takzim

Andrew Lim

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Helmi Amin

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Tel.: 03-7816019

Freesia Kraft No. 21-B, Jalan Petri Sungai Petani 08000 Kedah Darul Amnan Zainul Akmar bt. Ahmad Mohamad Fauzy Abd. Wahab

Tel.: 04-422425

Norfaam Sdn. Berhad 36A, Jalan Radin Tengah Bandar Baru Seri Petaling Seiangor Darul Ehsan

Muhammad Hj. Kasim

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MTIB PARTICIPANTS

- Mr. Tong Kek Hong, Director of Marketing
- Ms. Khong Lgn Fong, Assistant Director of Marketing (Market Intelligence)
- Datin Zaleka Ahmad, Assistant Director of Marketing (Domestic Trade

THE REPORT OF THE RESIDENCE OF THE PARTY OF

- Mr. V. Duangratana, Planning Division

On request of the Marketing Director of the MTIB a lecture on Market Research was prepared for Monday, 10 April 1989, covering the following items:

- 1. Nature and scope of market surveys
 - country survey
 - market survey for products
 - survey of marketing variables
- 2. Screening market potential
- 3. Preparing a survey methods of collecting primary data
- 4. Collecting data by questionnaire
- 5. Exploratory survey and analysis of secondary data
- 6. Preparing data for analysis
- 7. Analysis and interpretation of organized data and information
- 8. Writing a survey report
- 9. National institutions conducting market surveys

THE CONTRACT OF A STREET BOOK OF THE CONTRACT OF THE CONTRACT

LIST OF WORKSHOP PARTICIPANTS WHO REQUESTED POST WORKSHOP CONSULTATION AND ITS NATURE

- 1. Zahari Bin Ayub, of Seni Dian Kraft Sdn. Bhd (technical advice)
- 2. Lim Lee Kim, Diong Loh (Lim Eng.) Sdn. Bhd. (export and production)
- 3. K. K. Wong Afiah Sdn. Bhd. (market information)
- 4. Mohd. Yusof B. Abd. Mutalib, Malayan Industrial and Engineering Co. Sdn. Bhd. (marketing of semi-product and furniture component)
- Coi Theam Poh, OTP Akitek (marketing specification to export 5. furniture to the USA particularly on CKD furniture for residential)
- 6. Steven Tay Seng Hong, Commercial Interiors Sdn. Bhd. (marketing channels in Europe)
- 7. Ahmad Suradi, SPPIK Kayunilai Sdn. Bhd. (marketing in USA: a)
- type of product (b) finishing, (c) market research)
 Robert T. L. Quah, Setron Timber Industries (looking for new markets, production control, cost control)
- Ahmad Yusri B. Md. Amin, MK Furniture Sdn. Bhd
- Helmi Amin, Desa Cane (distribution channels)
- G. Krishnan, Halruwood Sdn. Bhd. (marketing advice and contacts for new customers)
- 12 Zainul-Akmar Ahmad, Freesiakraft (furnishing, moulding, Bte joinery, designing)
- 13. Mohamad Fauzy Abd. Wahab, Freesiakraft (ditto)

14. Hj. Ishak Hj. Abdul Ghani, Azman Sdn. Bhd.