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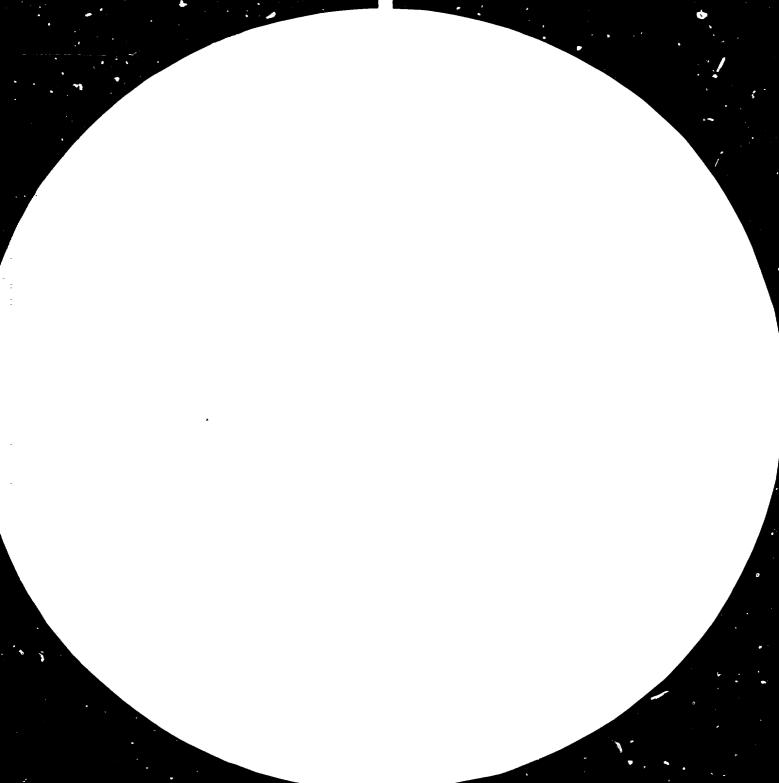
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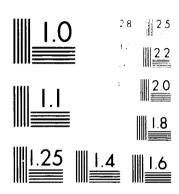
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SECONDARY WOOD AND RATTAN PROCESSING INDUSTRY IN INDONESIA *

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Jin Mintahir **

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^{**} Chairman, Indonesian Woodworks Manufacturers Association, Jakarta

I. THE PRESENT SITUATION

Like other developing countries, Indonesia has also started to develop industries and to process the existing raw materials into more valuable products. The first step in the direction is import substitution with the accelerated production of finished products to supply the world market.

1. Rew material supply (Schedule 1)

Productive forest area totalling 65 million hectares in Indonesia still has a standing stock of logs of 4.7 billion m3. From the above area a continuous supply of 40 million m can be cut annually to supply the domestic as well as the export market; provided replantation efforts are carried out properly. In reality the actual production is less than 50% of the total estimated supply, while at the same time reaforescation program is not effected as should be required. Lesser-known-species are sold as mixed logs at unreasonable prices, while selected and already known species having a good market price are cut in such a big volume, so that in certain areas such species are depleted viz. Indonesian rosewood from Central/East Java and ramin from West Kalimantan. The remaining standing stock of rattan is still waknown but according to the Directorate General of Forestry of Indonesia, continuous supply of rattan will be 80,000 tons per amum and the actual supply is approximately a bit over the above level. Almost 95% of the ratten is for export as per Schedule 2. Supply of rattan in certain areas are almost depleted so that it becomes very necessary to have man-made estates.

Teakwood (Tectona Grandis) and Mahogany (Swietenia) are Indonesian species that already known years ago in Europe, but now Meranti (Shorea) and Ramin are also becoming popular for production of furniture, doors and mouldings.

Production of Teakwood:

Year	Teaklogs for construction
1978	517.950 M3
1979	552.549 N3
1980	613.404 N3

Teak and Mahogany are grown and kept replanted in Java island, logs of which are banned for export. Production of Mahogany logs are 3.000-4.000 M3 per year.

2. Waste

Indonesia is still not able to utilize properly its available wood resources. Last year approximately 19 million log equivalent was considered as waste, comprising of logging residues as well as wasted from sawmills, plywood factories and secondary wood processing industries. Too, it is not considered economical to transport said wastes to the harbour for sale. It is suggested, therefore that such a big volume of woodwaste in Indonesia should be utilized. At least 15% of such waste accounting to at least 2.5 million m³ log equivalent may be used for secondary wood products, provided that everything can be done in efficient, modern establishments.

3. Manpower

At the same time, Indonesia is now still facing employment problem, as at least additional 1 million of workforce annually need suitable employment. In order to absorb the excess production of wood as well as to reduce the amount of woodwaste as mentioned above, a program to develop the secondary wood-based industry in Indonesia is deamed urgent. The need to set up more mechanised establishments like furniture, mouldings and joineries, floorings as well as craft industries should be given priority. The need to have skillful managers and machine operators is also of the escential necessity to support successful results of the above establishments. An extensive training scheme has to be carried out in Indonesia in the very near future.

4. Government Policy on Log Export

Timber industrial development has been intensified with the aim:

- a. To add the value to every unit of timber processed for export purposes.
- b. To provide more employment opportunities.
- c. To be able to supply the domestic demand for timber in sufficient quantities and at reasonable prices.
- d. To preserve the continuity of raw material sources and the environment.

Accordingly, the Government has banned and reduced the export of logs. Commencing in May 1980, export taxes of 20% of log exports and additional export taxes for certain fancy logs and sawn timber are applied. The log exports will be continuously lowered and planned to be at a zero level in 1985.

In January 1982, a new policy in increasing the export of non-oil and gas commodities was announced. Through this policy certain encouragements are to be given to exporters; among others:

- a. To lower the interest rate becoming 67 to 97 per annum.
- b. To improve import and export procedures and the term of export payments
 which
- c. To use freely the export proceeds in foreign currency/formerly has to be surrendered to Bank of Indonesia.
- d. To implement the export insurance and to improve the service on export loan applications.
- e. To improve harbour servicing facilities and to lower the harbour charges as well as the inland and ocean freight charges.

The aim of the above regulation is to be able to increase the volume as well as the value of the commodities exported and to be able to compete in the world market.

5. Export Figures

The amount of wood product exports in 1981 (January to November) is only US\$10.575.00 as per Schedule No. 2, among which US\$5.809.000 representing wooden furniture and parts.

Export figures for secondary wood-based products during 1978-1981 are as follows:

1978	FOB	Indonesia	US\$	8.779.000	
1979	15	27	17	8.075.645	as shown in
1980	11	11	*1	8.711.421	Table 2
1981 (Jan					
Nov.)	17	rt	91	10.575.623	

Retten

Rattan is available abundantly in Indonesis and is exported in polished condition as well as after having boxm further processed. The manufacture of rattan furniture has progressed but in terms of value, it is far behind when compared to export of rattan as raw material.

Totals of rattan exports, unworked, worked, matting are:

Year								
1978		บร\$	29.449.469					
1979		12	81.543.445	25	shown	ín	Table	2
1980		10	85.101.089			_		
1981	(Jan Nov.)	¥7	73.663.914					

II. OUR PROBLEMS

1. The Secondary Wood Product Industry

Most forest concession holders who have to process the logs have established integrated industries which consist of logging, savmilling, plywood menufacturing and woodworking. These companies are large-scale capital-intensive industries getting license from the Coordinating Board of Investment and enjoying

attractive investment facilities. The total number of these establishments presently operational are estimated to be less than 40 units, at the same time there are almost 4,000 small and medium-scale industries spread over the country, 95% of which are home industries employing lass than 5 workers. Most of the small-scale industries are furniture makers.

2. Productivity

Productivity of furniture industries are still low compared with other ASEAN countries. The designs of the furniture produced ara considered not good enough but are acceptable by most of the lower income people. The demand for domestic market is big to meet the increasing income of 140 million Indonesian inhabitants.

III. WHAT JE NEED

1. Increasing Productivity and Lowering the Cost

With the abundant supply of raw materials plus the available labour force and in order to meet the national industrial development programme on improving secondary wood and rattan industries, a serious step has to be taken. This can be done through investment on capital goods as well as the improvement of the necessary human investments. A training programme to upgrade the ability of the middle managers and plant workers should be undertaken in Indonesia. This is desirable to avoid time waste and to minimize material waste. It is very urgent to conduct technical training facilities for:

- a. marketing
- b. production management and engineering, design
- c. costing and pricing
- d. setting up of training centres to train instructors

Practical training for 6 months to 1 year of machine operators should be given priority.

Technical essistance, marketing cooperation and exchange of information.

2. Skilled Machine Operators

Indonesia needs at least 3.000 skilled operators in the next 4 years to be employed by the coming wood-based industries, which can not be fulfilled by the present existing two vocational training centres. The wood and rattan excess supply may create 200.30 employments within the next 4 years.

3. From Other Regions

We need cooperation among Asian countries especially in the field of technical assistance, marketing cooperation, exchange of information and setting up plants for the increasing demand for woodworking machineries and furniture fittings.

IV. WHAT WE OFFER

- 1. To buy logs, sawn timber, plywood now being available.
- 2. To deal in marketing and production management contracts.
- 3. To buy processed timber and rattan for furniture components.
- 4. Industrial complementation and closer cooperation among ASEAN countries.

Finally, I do hope that this paper in my personal view will be able to serve the need to develop wood and wood product industries in developing countries.

DATA OF INDONESIAN FUREST AND WOUDBASED INDUSTRIES

1. Total land (_rea) : 19,9319 Hill. HA = 100 %

2. Total tropical moist forest : 119.3 " " = 62,1 %

3. Total productive forest : 64,9792 " " = 33,86 %

with standing logs of 4.786,662 Hill. M3.

4. Number of registered sawmills: 1510 units, with production of 3,797 Hill. M3

of sawn timber, among which:
202 units with forest concession

1.308 units without forest concession.

5. Number of plywood factories: Year 1980 - 21 units in operation with production capacity 800.000 M3.

1981 x) 34 units in operation, with

production output of 1.550.000 M3

20 units under construction, with production output of 910.000 M3

118 units under process, with production output of 5.000.000 K3.

5. Production and sales

2224724724443242722	Year	Logs 1.000 H3	Sawr timber 1.000 M3	Plywood & Veneer
a. Total production	1979	27.500 M3	4.000 M3	624 H3
	1980	21.500 M3	4.797 M3	1.011 H3
	1981 x)	21.500 M3	6.250 M3	1.545 H3
b. Export	1979	18.500 H3	1.270 H3	126 K3
	1980	1+.185 H3	1.130 H3	263 K3
	1981 x)	7.000 H3	2.000 H3	655 K3
c. Domestic use	1979	9.000 H3	2.730 K3	624 H3
	1980	7.315 H3	3.667 H3	1.011 H3
	1981 x)	14.000 H3	4.250 M3	1.545 H3

x) estimated

7. Specification of Sawn Timber Export:

	Teak	Ramin	Meranti	Other	Total
1980 1981 (Jan-Hay)			260.000 H3 114.000 H3		1.130.000 M3 438.000 M3

EXPORT OF SECONDARY WOODBASED PRODUCTS, RATTAN AND RATTAN PRODUCTS FROM INDONESIA

FOB in US Dollars Jan/Nov. C.C.C.N 1978 1979 1980 Commodity 1981 4420000 Vooden picture frames 113 617 134 252 239 424 329 78h photograph/mirror 74 549 3 571 268 313 430 4424000 Household utensils of wood 140 043 239 885 327 490 359 007 4427000 Standard lamp, table lamp 421 036 636 779 1 261 950 1 073 501 4428990 Other articles of wood 917 325 701 714 1 885 435 9401110 Chairs and other seats of wood 133 394 9401910 Parts of chairs and seats 7 872 of wood 682 745 968 022 1 186 410 .9403290 Other furniture of wood 202 431 Total furniture 1 706 578 3 380 372 5 015 690 5 308 723 4419000 Wood beadings and soundings 5 652 828 2 072 000 2 704 710 1 466 962 4423100 Prefab buildings of wood 823 618 2 476 320 1 420 494 991 021 4423900 Other builders joinery of wood 2 623 273 4 766 900 Total mouldings & joineries 7 073 322 4 69 273 3 695 731 Total sedondary woodbased 8 711 621 10 575 623 8 779 900 8 075 645 products 1401311 Rattan & cane, whole unwashed | 22 612 019 58 172 973 57 626 636 1401312 Rattan & cane, whole washed 19 893 999 and sulphured. 1401313 Rattan & cane, whole, short/ 13 305 small in 50 cm 1401319 Other whole rattans & cames 25 179 216 94 525 1401320 Rattan split 1401330 Rattan cane 2 829 163 11 382 973 13 297 221 12 331 133 4 532 719 1401340 Rattan bark 1 184 215 2 866 750 4 476 8351 7 797 392 1401900 Other vegetable mat for platting 839 144 2 396 617 1 107 885 3 571 268 9403390 Other furniture of other met. 1 186 410 460220 Matting of rattan 2 184 928 6 724 132 7 608 304 249 857 Total rattan and 'rattan 29 449 469 81 543 445 85 101 089 73 663 914 products

Source : Contral Bureau of Statistics

