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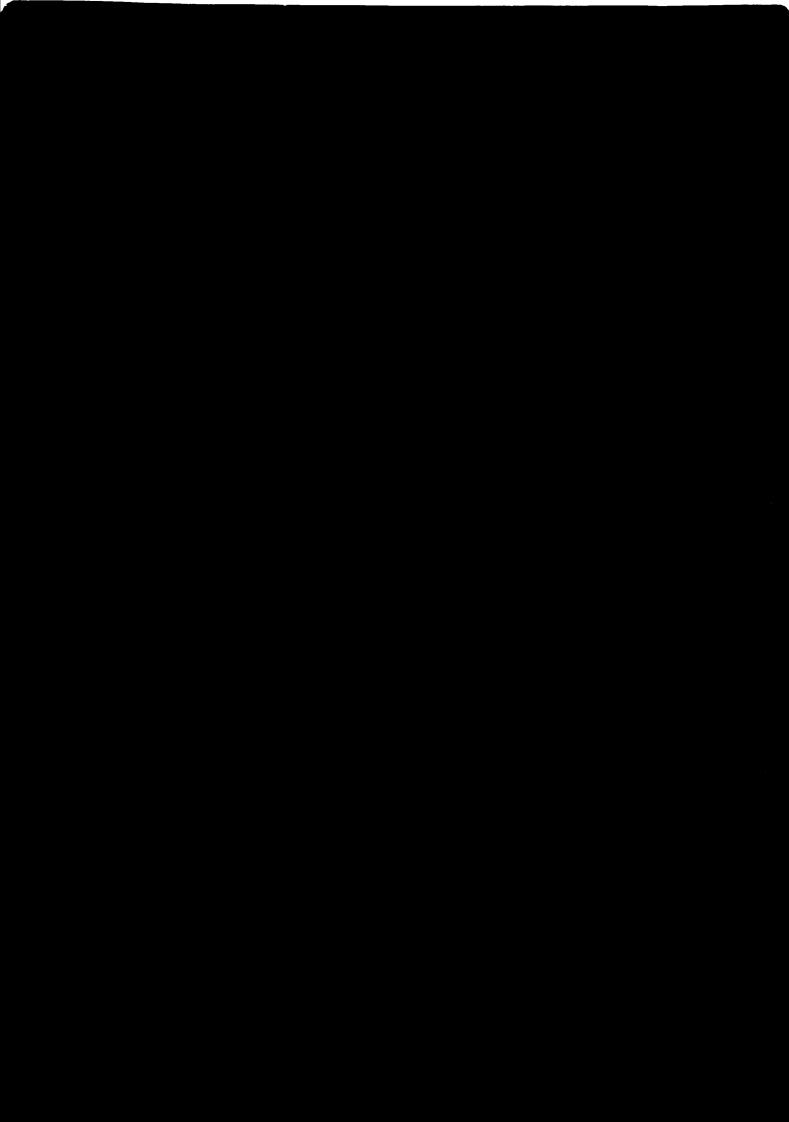
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Distr.

37 May 1976 ORIGINAL: MICHISH

United Matters Industrial Boustonment Commission

Technical Course on Criteria for the Selection of Woodworking Nachines
Hilan, Italy, 17 - 26 May 1976

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Thailand is a Southeast Asian country with a penulation of 40 millions and with an area of 514,000 means kilometres, a third of which is covered with forests reneing from Horth to South on the hilly parts. Hem though there are ever fifty wood openies, only two, namely teak and lanan, dominate the buniness intermeters woodworking industries. The lanua wood industry is mainly for local consumption. This is because of its chan price in comparison to that of took. Furthermore, there is a diversity of application in building constructions and furniture structures. Even though lanan is cheap for local consideration, it is more costly in comparison to the name category of woods in neighbouring countries like those in Indonesia and the Philippines. Because of the reason mentioned, the amount of lanar export is fairly limited. On the other hand, teak with its well known intrincic values finds large demand both locally and abroad. The local domands are mostly confined on low to medium grades in the form of solid lumber. The high-grade teaks are converted into veneers, more than 30 per cent of which are exported.

Primary woodworking industries in Thailand are fully emanded. especially in the arm of saw milling. Over the whole country, there are more than 500 daw mills with capacities ranging from 20 to 80 cubic metres of log concumption per day. However, much of the large caw mills are situated in the central arms, especially in Bangkok. It can be said that small to medium has mille employ tacally made machines or imported machines with local modification: As such, they are not automated. Only a few larger can mills in Bangkok are equipmed with semi-automated machines. The major problem: frage them are not of a technical nature but of raw materials. There have been inadequate amophics of legs to the extent that it become imperative for the Government te impose export rectriction of logs in the early 1960%. With the restriction, experters are not allowed to expert nam timbers thicker than M cas. As a result, export volumes declined from 1960 to 1971. However, with the advent of vencer and parquet-flooring productions in the early 1970°s, the export again started to nick up its momentum, reaching a reak in 1973 with a total export of 25,000 matric tens in volume and with a foreign ourrency earning of about US\$ 43 million.

Promote that improvement attempts have been made to beligh the restriction on the export of logs. However, it is felt doubtful as to the success of the attempts since there are fourteen promoted vower producing companies with an appropriate yearly consumption of 30.000 cubic a matrix of wood, together with eighteen operated parquet-flooring factories with a total yearly output of 3.000.000 m2.

Plywood and particle-board production was started in the late 1960°s.

Been with an increase in production volumes in the later years, the outpute are still confined to local consumption. At present, there are three major plywood factories with two continually producing hard-boards and fibre-boards. There are also another two narticle-board factories. However, since Thailand is still nourished with forests, solid woods are still the preference in furniture making. It is anticipated that even though the future for wood-based panels is not presently bright, with an imminent solid-wood shortage as well as with improved production techniques the wood-based products will ultimately control the local markets.

Secondary wood-working industries are mostly of the cottage type scale. Out of 2.000 firms spread over Thailand there are only eight firms which utilise mass-scale production techniques. Most of the product volumes are for local consumption. Experts are also made to neighbouring countries like Lace, Cambodia, Nalaysia, Singapore, Hongkong, Taiwan and Japan. The basic difficulty on expert of furnitures is on their bulky nature. However, the problem is colved by experting small size furnitures as they are and larger sizes on a knock-down basis. From 1970 to 1974, there were five firms having joint-ventures with foreign firms - three with Japanese and one each with American and Taiwanese. The joint-ventures were done on the basis of local firms manufactured knock-down parts to be assembled in the counterpart firms abroad. With those joint-ventures, there has been a rapid growth of furniture expert. From 1970 to 1972, there was a growth of 170 per cent and experts in 1973 were four times that of 1972.

Thailand radically started her social and economic developments in 1960 with successive five-year plane. Foreign investors have been encouraged to invest in Thailand with attractive incentives. In the span of fifteen years,

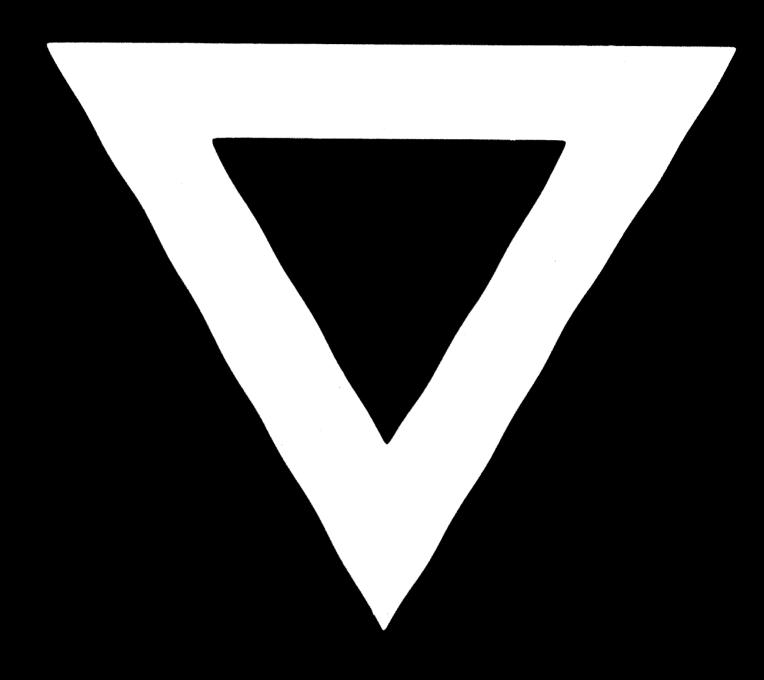
It can now be said that on a comparative basis with neighbouring countries, Thailand has firmly established light manufacturing industries together with a number of basic industries. In the process, Thai professionally qualified personnel together with skilled and unckilled workers gain sufficient maturity in industrial experience to the level which can ensure prefitable returns or investments with a minimum number of foreign executives or administrators. This is the result of imported technical know-how, training, together with technical education expansion.

Lately, Thailand suffered two major economic problems - one was
the world-wide inflation as a result of the oil crisis; the other was of
political sudden transitions both within and outside the country. Newsver,
confidence has been gradually re-established during the past six menths as
can be read from investment reports released by the Board of Investment of
Thailand which can be obtained upon request.

As far as weedworking industry investments are concerned, Theiland has reached a phase where trends of development should be geared towards semi-automation of furniture making with the prime objective being for expert. Additionally, there is the need for investment in particle-board or fibre-board eperations. Local assembly or manufacturing of wood-working machineries is also attractive. However, even though there are apparent markets for them, appropriate marketing and product promotion are considered to be unwiffable.



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