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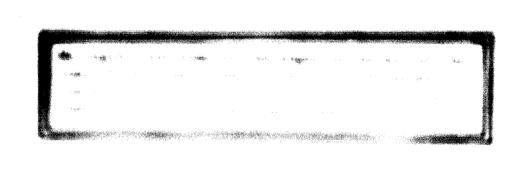
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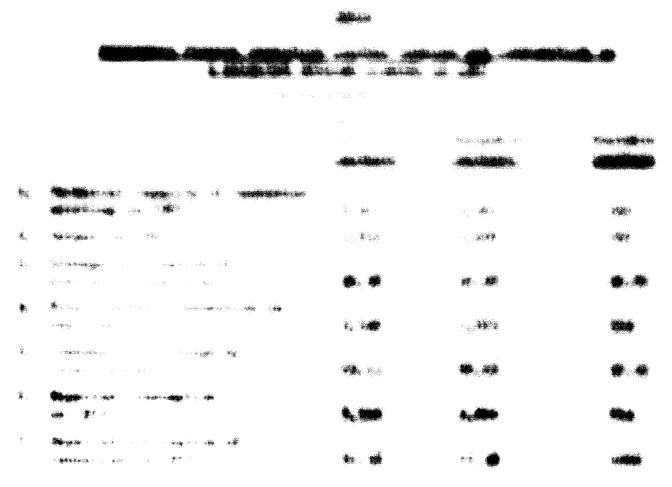
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It is if the passible to severt one unit into another using definite source a factors. These, however, seldon have a universal and permanent lightly ancer they vary with time and from one thantry to the other. This does not become their importance for many means on size incidentions, being our only seams compile aggregates.

with the exception of a few materials which attracted the attention of foreign emperies early enough, developing functies will seldom display an alequately terrespect raw material base on which a fast growing industry could rest. Their mitters resources are mostly still is a natural state and the traditional way in their utilization yields raw materials less fit for industrial processing

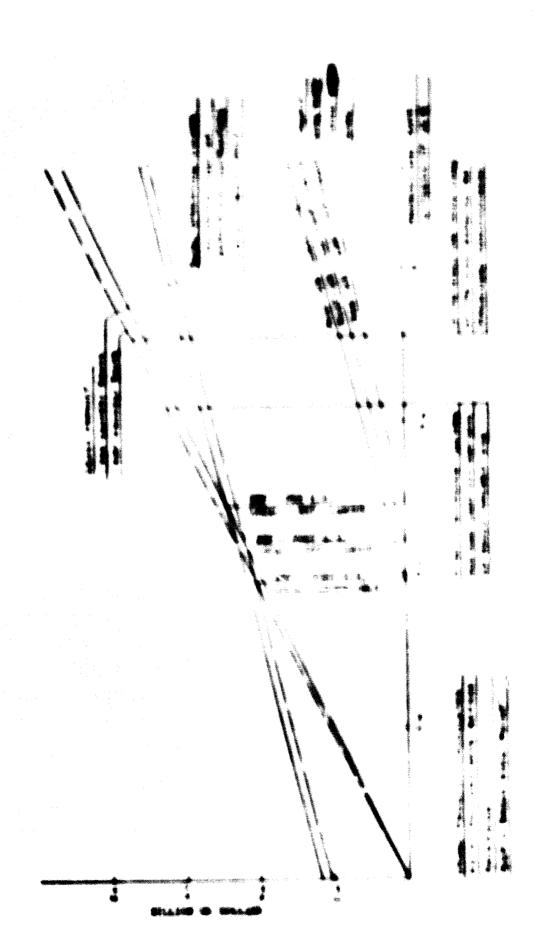
- 16. A cumber of African subtrees arrived at the sections on that they night considerably in react their mains to fireign servency of their exported finished leather instead of exporting raw hides and mains. Some of these subtrees went directly into action are ting new tanning separation, while some their preferred to have the case thoroughly investigated since protests arose that sufficient capacities already existed in the country, operating under conditions of non-utilisation.
- 17. Investigations were based on reports submitted by the tanners themselves and checked by comparison with all available official data regarding local consumption of leathers, production of raw hides and skins as well as foreign trade statistics.





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- The testimate ending to the testing required a considerably bigger tennery than the testing of the and testing the analytic and four thousand skins a day, whose testing of the analytic and the constant of t
- were lowered as promised, if socal labour was fully trained and in particular if the quality of local raw materials were more convenient. Operating without foreign instructors and exporting leathers under improved tariff conditions the ereal-even point would drop to 63 per cent which may be considered as safe enough. At the production and conversion improvement in the country would sometribute very much to the profitability of the plant and would allow it to errive at the conditions expected by the consultant. The tannery would arrive at the conditions expected by the consultant. The tannery would arrive at a break-even point of 53.5 per cent and a profit of some 17.5 per cent of project costs or 24 per cent of sales which check; be judged as very satisfactory considering that all calculations have been made very conservatively.
- It should be noted, that the tancery could earn more selling on the least carket than exporting the leather. Besides the difference in the price level of leather between local and foreign markets there are both foreign custems duties and taxes as well as transport and packaging costs responsible for it.
- is ment of additional conversion facilities using leathers to manufacture footwear, germants, bage and a number of other goods which could in one part substitute present imports and in a such greater part serve for export. In that
 have much bould be saved on transport costs but maybe even more lost on higher
 tariff rates prevailing in importing countries, which tend to protect their own
 manufacturers of finished goods. On the other hand, if the tannery had to
 remain at the leather manufacturing alone, it would have to be much bigger if
 it manted to be profitable. Some 20 million sq.ft. of various leathers could
 be a safe enough capacity under the circumstances.

- that in some African countries, not to say in all of them, conditions are essentially different from those encountered in, say, Europe. There are much greater differences in the income level existing in African where the expatriate minority enjoys salaries equalling or surpassing those in their own country of origin, while the native population still lives at the level of subsistence economy or slightly better. In consequence, thereof, there are at least two basically different markets existing, having nothing in common, the one being mostly supplied from alroad and the other from local sources. The few comparable items found here and there are moving on price levels distant by some 500 per cent, more or less.
 - 40. Such markets do not readily respond to price level changes. The affluent part of the population will not consume more if prices went down, except for luxury items, while the other part of the population remains unimpressed by changes lesser than is the distance separating the two markets.
 - Al. In the case of footwear, the majority of population is more interested in the price movements of canvas, rubber and plastic shoes costing 1 dollar a pair than in the price of leather shoes costing 5 dollars and more.
 - 42. This indicates that most locally produced industrial articles although having a well priced but limited market at home will encounter difficulties at any attempt to extend those limits, which should normally result in an endeavour to place those goods in export.
 - Having made good profits at the home market, but still remaining with free capacities on their hands, sugar mills and glass works started exporting their surplus products into neighbouring African (and Near East) countries achieving much lesser prices but still high enough to make the exercise pay. As soon as local markets could absorb those commodities in greater quantities, manufacturers inderstandably dropped the export and turned back to the better priced local market.
 - 44. It is quite evident, that the home market must pay for the export and that this will always happen in the reverse proportion to its strength. With a small market in view any industrial manufacturing will pay only if its breakeven-point of operation (BEP) is sufficiently low and this means correspondingly

higher home market prices. An industry having surpassed its BEP on the home market will easily find export business profitable, but building up export sales starting anywhere below BEP is a very hard job indeed, unless particular circumstances, as for instance availability of very cheap raw materials, exceptionally good skills, particular attractivity of the product or other factors could make it probable.

UTILIZATION OF CAPACITIES IN VIEW OF ADEQUATE SUPPLY OF RAW MATERIALS

- 45. As evident from previous paragraph, the conditions and characteristics of locally available materials may cause a technical capacity to be much lower than expected which will result in an apparent underutilization of the facility. Other conditions may cause the technical capacity to remain unutilized in spite of a good demand on the general markets.
- 46. This is occurring in some African countries in the field of livestock production and meat canning. There is plenty of livestock in some African countries, particularly where climatic, hydrological and pedological conditions favour it. Nomadic way of living is a result of it. The cold climate of African highlands provides conditions leading to a sedentary way of life and this is the reason why those lands are the most densely populated ones. The more temperate climate of middle altitudes with its lesser rainfall forces the peoples dependant on their cattle to wander after water and grass. The same, but to a higher degree, happens in the hot zone of the lowlands, where the rainfall is very scarce and the nomadic peoples are forced to cover incredible distances in order to keep their livestock alive.
- 47. Under the conditions, the livestock puts on weight very slowly and living on grass and brush never attains the same size as elsewhere. It takes it more than ten years to mature for slaughtering which compels the peoples to keep oversize herds resulting in overgrazed pastures and very low offtake rates.
- 48. These facts alone already suggest a very low average weight of the cattle and long distances required to collect a sufficient quantity of livestock on which to base a decent meat industry. Better feeding would obviously bring about a lessening of herds at a greater yield on meat.

- Many investors and several governments to try to establish meat canning industries on it, but they met catastrophic results. In one of the respective countries, a recently erected slaughterhouse could not be operated at all because of total lack of cattle although the country is reputedly living on livestock and agriculture as any world almanac or encyclopedia could tell. The enterprise even tried smuggling livestock from neighbouring countries without meeting with success. Driving livestock for hundreds of kilometers over waterless and roadless areas is not a good business proposition indeed.
- 50. In another African country, notorious for its wealth on various cattle, a foreign company established a slaughterhouse set up for slaughtering 60,000 heads of bovine cattle a year. Although located in an area which allegedly contained 5 million heads of cattle, the slaughterhouse never succeeded procuring more than 50 per cent of what it needed and after losing its initial capital thrice over had to go into bankruptcy.
- 51. The general idea that abatteir was to export frozen boned meat to another country, where it could be canned and re-exported effacing underways its place of origin since this latter did not maintain its veterinary services at the proper level. Disregarding the irregularity of this method which was bound to become known and cause failure of the enterprise anyway, we will dwell upon other conditions which made it impossible for the enterprise to operate at the expected capacity and actually caused its failure.
- 52. As later investigations proved, the claughterhouse had its break-even-point at its nominal capacity, whereby 60 per cent of all costs were to be incurred within that African country while the remaining 40 per cent were to be expended abroad. This would have secured a decent profit for the foreign investor abroad, with no profits left behind in the livestock supplying country, without forcing the enterprise into bankruptcy.
- 53. The 60,000 heads of cattle could never materialize, anyway not at the expected price. Buying at the rate of 10,000 heads per annum, the cattle price was of the order of some 6 US cents per kilogram on the hoof. Doubling the offtake to 20,000 heads per annum the average price went up to 12 cents.
- 54. Discussions ensued, and the wildest theories were invented to find an excuse for miscalculation. The most popular theory was, that people possessing

the herds were keeping them as a symbol of status and did not want to sell them for fear of losing their social position.

- 55. Such and other wrong ideas were put forward, backed by misinterpretation of African tradition. In fact, the African rincher, whether nomadic or not, made nothing more mystical than using dommon sense. He needed a quite definite number of cattle to survive and sold only as much as he safely could. Asked for more, he had to go into other areas in order to fetch it from there, thus incurring certain risks (exorbitant grazing fees underways, use of roundabout ways to make sure of watering possibilities, loss on weight, infections diseases caught underways, loss caused through wild animals, robbery and accidents and so on), which the cattle seller converted into money and added to the original proce.
- 56. The foreign investor miscalculated the real conditions and did not pay sufficient attention to the problems of the local population. The interests of his enterprise were in contradiction to those of the economic environment in question.
- 57. Instead of leaving all the problems to the population and the government of that country (the government participated at the investment) and instead of believing that he did his part of the job by delivering a sophisticated slaughtering and freezing equipment, the foreign investor should have made some calculations, very popular with modern economists, which would have convinced him that the cattle offtake rate in that region, due to feeding facilities, was not more than 4.7 per cent, that the economic distance of supply was scarzely more than 100 kilometres and that due to very low average weight of cattle, a greater number of cattle than available would have had to be slaughtered to make of the enterprise a business proposition.
- 58. The calculation would have disclosed to the investor that the required quantities of cattle did not exist and that they could be procured either by the construction of an extensive grid of all-weather roads or through a complete change in the cattle feeding habits, introducing artificial feeds. Let us mention by the by that the country is rich in oilseeds and that all the oilcake produced in that country is either being used for fuel or exported to Europe.

- 59. With the intent to rescue the failing company, its creditors invited other investors to take it over and try to run it profitably.
- 60. The next to put forward her proposal was a large international corporation which made some rather simplistic proposals, offering to increase the slaughtering capacity to 250,000 heads of cattle per annum and to go over to canning instead of having to take the meat frozen over a distance of about 1,000 kilometres to the nearest port, to which point, if frozen, it had to be taken in heavily insulated containers only to be kept in cold storage at the port itself until a boat with refrigerated holds could take it over.
- 61. The corporation promised to make the enterprise profitable after seven years' operation, under the condition that the price of cattle would not go up, nor the world market price for corned beef and extract drop from what they are now. A further condition was that the government should undertake to construct several hundred kilometres of all-weather roads and a number of cattle holding areas in various parts of the country.
- 62. The proposal was rejected only after very dramatic discussions at which a very respected personality but the question whether the two dozen million bovine cattle of which the statistic boasts in reality existed or did not exist. Of course, they did exist, only they were underfed and inaccessible by road. In a certain sense it was well for the nation that the cattle was inaccessible. Raised as it is, it just serves the population to survive. If the cattle was slaughtered away there would be famine induced. The only way out of the predicament was, and still is, to improve the livestock production itself, by modernizing it, and to consider statistical data only as a proof that environmental conditions were favouring livestock production in that country.
- that rule and that the two abattoirs mentioned above are by no means the only ones that failed. Many more went broke for the same reason and it would be useless to repeat the tale. Within little more than a thousand miles from where these lines are being written, three large and recently established meat canning plants are idling with their gate closed and its labour, which recently settled in the area and got trained at the plant, now looking for help from heavens.
- 64. Another foreign investor, in still another African country adopted the method of slaughtering small quantities of cattle in several points of the country,

taking the dressed carcasses to a central canning plant and leaving everything else behind. An expert, looking at all that waste (hides, casings, blood, horns, hoofs, etc.) asked the man financing the enterprise whether he thought this was in the interest of the country. It looked more like depletion than anything else. The financier answered that his only interest was to see the company operating profitably even if it meant wasting the offal.

65. It is difficult to disagree completely with the man. Buying cattle in quantities not disturbing its price is actually an incentive in itself, and it is also good to see people getting employed at the slaughterhouses and the canning plant. It is also most important to preserve the invested capital and to ensure the operation of the whole by allowing the company to make encouraging profits. It means indubitably a development but anyway not all of the development needed. A true development would include improvement of the herds, elimination of waste and modern economy-of-size plants producing high-valued end-products. It is the only way to development there is.

CAPACITY UTILIZATION AND KNOW-HOW

- 66. An African country used to import some 4 million US dollars worth of pharmaceuticals from about 35 different countries, some of them much smaller and on the whole economically weaker than itself.
- 67. This seemed to be a good opportunity for industrial investment and, in consequence, a quite well reputed foreign company was invited to participate at the investment and to take over the management of a brand new factory producing a long list of generic pharmaceuticals. The plant was quite as it should be with the exception of a few architects' errors of no great consequence.
- 68. After about two years' operation, the new national company lost more than 50 per cent of its capital and got into serious trouble. Credits were withdrawn, phones disconnected, raw materials stopped at the customs-house and foreign experts licensed. The foreign partners gave up the job and parted company. Departing experts burnt the contents of all filing cabinets and the two hundred and odd local workers remained jobless overnight.
- 69. This all could happen to a certain point. What should not have happened is the way the rescue operation was and still is being handled, as will be shown later on.

- 70. An analysis of the company's doings showed clear enough why it had to fail. Setting up the factory, the country's government had its economic development in mind, while its foreign partners felt attracted, as is normal, solely by the business outlook the venture offered. The government's intent was to create employment and to reduce imports. Foreign company's speculation was not contrary to that, it was only different.
- 71. The foreign company calculated, that the main consumers of the factory's products will be government-owned hospitals, whose consumption on pharmaceuticals accounted for some 25 per cent of all imports. The foreign company calculated that the government will protect its interests in the enterprise by forcing the hospitals to buy national products.
- 72. In reality, things happened otherwise. The hospitals joined forces, set up a common purchasing organization and decided to meet their requirements by wholesale purchases upon advertised tenders. Hospitals were anyway entitled to duty-free imports of pharmaceutical in the same way as the national factory was.
- 73. At the biddings, the national facotry found itself protected by a bare 10 per cent preferential against big foreign manufacturers who simply adjusted their prices to the circumstances forcing the local factory to yield ground and the big ones won the contracts.
- 74. It must be noted, that hospitals are purchasing generic pharmaceuticals in packages of 1,000, 5,000 or 10,000 pills each. At the import of goods, packaging containers are going duty and tax free, and are anyway not costing much in comparison with what they contain if bulk pharmaceuticals are considered.
- 75. The local factory had to import the tins and pay taxes on them, or, it had to purchase them locally at very high prices. On the other hand, dealing with bulk packaged pharmaceuticals, the local factory could hope to make earnings exclusively on cheaply purchased raw materials and their careful handling, to avoid spillage and wastage of the costly materials. A starter in this business sticks to pilling, vial-filling and packaging and there sure is not much value added afforded to make savings on if packaging is eliminated.
- 76. The foreign company running this African factory decided, that if raw materials were purchased in greater quantities, they were bound to be cheaper under any circumstances. It proceeded to make purchases for several factorics

in various lands, took the goods to its European site and doled them out to the several users. This required repackaging, repeated taxation, increased transport costs, a commission to the stepmother company and other things, making the price exorbitant. And what is worse, the contact between the raw material supplier and the factory that had to process those materials was broken, which resulted in lack of information about their proper process:

- 77. In consequence, the African factory had to find out by itself how to make good pills out of those m. Fials. At the time the factory was investigated by the author, some of these materials were still being repeatedly re-processed without apparent result while considerable quantities of those materials still remained stored unredeemed at the Gustoms House. Some of them for more than a year. Remembering that at such a type of manufacturing, the raw materials cost can easily surpass 80 per cent of total production costs, it will be easily understood why the factory could not stand it.
- 78. Pharmaceutical factories must inevitably obtain their raw materials directly from their producer with every batch accompanied by processing instructions. To that aim, it is absolutely required that agreements should exist between suppliers of active ingredients and the factory using them to produce pharmaceuticals. Pests in the buyers factory should precede such ar angements and in some cases even a specific training of the buyers personnel will be advisable.
- 79. On the other hand, it is absurd to expect a starting drug manufactory to be able to make earnings on bulk sales. A pharmaceutical factory can start making its earnings by repuckaging cull deliveries of good drugs into retail packs, going over to pill making and injections where pills are containing cheap fillers and vials much distilled water. There the factory stops for a while gaining experience and doing some research work in order to find a possibility for the manufacturing of some specifies of particular interest in respect to local pathology. African countries developed traditionally popular drugs based on locally available herbs or fruit, which helped them in the past to fight the most aggressive local indigenous diseases and parasites. These basic materials can be properly examined, the active ingredients extracted or at least quantitatively and qualitatively determined in order to allow a correct dosage of these items in their original form and the like.

- HO. In fact, a pharmaceutical factory at its beginnings is actuage elections a packaging industry and cannot operate profitably if it is not so conceived.
- a board of commissioners and a foreign expert for a general manager. The new manager, being as over-all pharmacectical expert succeeded in introducing the manufacturing of some twenty articles which were not a loss, but their total quantity did not suffice at all to make of the company a paying proposition. The output attained a value of some US\$200,000 whereas I million would be needed to have the factory running profitably. To attain such an output, sore than 100 various items should have been manufactured and retail-packaged. For the neither the know-how nor packaging facilities were available.
- 82. The factory management was advised to try contacting definite European manufacturer of pharmaceuticals to obtain from them offers for raw material deliveries, together with manufacturing prescriptions regarding their mechanical conversion into finished products. Several offers were obtained, some large manufacturers even offering delayed payment terms.
- 83. Still, nothing happened. The factory management remained irresolute and no decision was made. The foreign expert, having no authority to act, did his best introducing at snail's-pace new articles and steadily reducing the losses, having a very long way to go before he could feel on the green.
- 84. The main reason for indecisiveness on the part of the management was somebody's suggestion that only 100 per cent private enterprises could be made profitable, and that the government should get rid of this one. Following the suggestion, the government disregarded offers proposing to make the factory viable and invited private overseas companies to take it over. The reaction was what it could be expected. Nobedy wanted to buy the factory and whoever showed interest in it wanted to have it for nothing and a monopoly in the bargain. Although some specific advisers insisted that the government should not own industries, not a single foreign private company, whether big or small, wanted to run a local industry without the government's partnership in it.
- 85. In that manner, a purely business matter was turned into a political problem. Where the factory needed technical know-how, a few thousand dollars worth of packaging machinery and a modest mark sting organization, it was offered an ideological problem instead. A thorny way to make a factory go.

- A particular type of concrete pills, and in %,000-palls package attained at a blocking for hospital supplies the price of 20%2,62 per 1,000. Seems fortuny rould not produce these same pills for less than 20% for the same polity and decays, which made it come the contract. These same pills of identical materials are simultaneously having a rate; seems to price of 20%,00 for a package of 20% pills.
- 87. A subsequent to culation, baset is real effers, should how the local fortory, in spite of its higher productive costs, and still have remained as the market making considerable profits, had it only solicted to retail packaging.
- With the mount be noted, that these many generic file from other scarces (of world reputed brand names were sold in retail at 1888. He and more. In all regulations are in the meantime limiting the wholesalers consists on a lowed a cent and the retailers commission to do per cent. Such conditions a lowed a neighbouring African country to export some of its pharmaceutical products (cold pills) to this country to ling them protically congruences counters, after paying considerable import the and duty. Some count plarma lets are meanwhile dispensing for the tenefit of (cold population parameter when made from ground dried leaves and thowers of a load hert, blockaging them in openies and paper bags for 8 0.60 a cure consisting of circ apple on.
- 89. The capacity of the factory we are operating of, is presently stilling to 25 per cent. Joing over to commercial packs even but not attituat on rate could make it profitable. Expecting a general from is prices if it seriously started operating let us assume that a 50 per ent utilization would be required for safe operation and these 50 per ant would over not some than some 15 per cent of that country's current import on pharmaceuticals.

ANOTHER CASE FOR KNOW-HOW

90. What mess the lack of know-how ould create is seen from the case of tertile mills. Investigating in 1963 a tattering African textile mill having 26,000 spindles and 400 looms at its disposal, it was found that in its production cost breakdown local labour was amounting to 5.64 per cent while foreign labour amounted to 15.20 per cent. The is any was producing loss, and in order to avoid it, the foreign management tried to make up for it by reducing the local labour's wages which caused them to strike.

- It was the ensiest thing in the world to find out that we wrong with it and how to remedy it. The cost accounting but itemaly in evidence that the product tivity of local labour reacted unproportionately to the wage level and that a rise would have produced made better offert these the cutodown:
- 92. On the other hand, the long magnitud to the period and not seem paid, the factory could not have been saved. When saver it was to make access the the 15.2 per nent of foreign labour wate and long the factory of the foreign labour wate and long the factory and it was to make a factory to the foreign labour water and long the factory is to the factory of the factory labour water and long the factory is the factory of the
- 93. The mill was operating on one shift only. And a second shift seem introduced, the long would have disappeared if foreign labour oness were says on the same level.
- plentiful foreign labour, was unable to produce a better assertment of factors, then prevalently a much like type of fabric, much and by love population.

 Cince a dozen textile willie already extend in the love ty, revolution that type of fabric, the market was very revolution the pri se were deep form. The factory under investigation was more over subdistanced by all these textile willed by some 600 kilometres in regard to the marketing entree.
- fabrics were manufactured at a color, anyway, and a were great from and employed unfinished stems. That produced profits were about from, and about and complete transport to the factory management to make observe that bed sheets be only with, note making a profit, where these if their wide, nade a long. This was the to to fact that difference in the public of raw cotton required to make those broader excets cost more than the difference in the difference in the difference of the two items.
- 96. Another source of hose was found to wrist in the average of the factory with raw materials. If these were kept within reasonable limits, the loss would have seen greatly reduced. Also, the factory and sure first since cotton to make the second class fabrics, while everybody size was using for the same type of fabrics much steaper staps fibre.
- 97. It was very easy to rescue that factory which is at present operating without causing too much troude as to losses. Nuch more trouble is caused

by testile eille in the country through their high tariff protection while turning out had fabrica.

- 98. All those factories, and same of them have existed sore than fifteen years, are madely to produce fabrics which could be used for the samufacturing of Safepean style saments and these are steadily being imported from the Far and Sear Sact.
- The land water lating are an item the manufacturing of which does not require made capital while offering planty of amployment apportunities. In should write like an assembly whether a decayonage wanter about 4 protect rether them.

 These paramet capital territor than the amployment is produced.

to do with permanently unskilled manpower. This was also reflected in the fact that each loom was operated by one man. It will not be believed that the factory was fully owned and managed by Europeans although it will be more easily believed that the factory went bankrupt after only a couple of years! speration, drawing siong much of the African creditors! monies. It goes without saying that the plant's capality was never at liked for more than 50 per cent. he management, however, firmly believed that its policy kept the labour costs!

Ther textile mile were not in a much better position and staffs surpassing by 100 to 400 per cent the number normally meeded for the running of
classical plants in birops were no rarity. During the past two or three years
things started very such improving. Calcur flightuation is reduced and vages
are better. To see mills one may persted from the total losse getting the
classical declary of what was usual with the one-man-per-loss method.

1. A. to the quality of expetriate personnel, it will be discussed later to the object of this study.

- 107. These are no empty words. One African country, of the less well-off ones, disposes of no less than 32 large oil mills not counting several hundred quite small ones. A recent survey estimated their utilization in 1967 to one third on the average (some 25 per cent other 40 per cent). In spite of this, this same country can see not less than five new large columits actually under construction and two new aparities recommended for implementation. These seven new plants will more than double the expected consumption increase within the next five years. Experts will be able to tell what the export outlook for edible oil from Africa are.
- 100. In another case, no less than five paint factories were established upon a total consumption of a couple thousand tone per annum. New investors are submitting proposals for the establishment of additional paint mills under investment promotion benefits.
- 100. There is a city in Africa which had very bad bricks, and it was clear that whoever started making good bricks will parry the market since the searest good bricks had to be brought from one hundred kilometres away.
- the respective owners considered carefus, whether to modernize their facilities or let then be as they are, particularly because of growing interest in count blooks while started overflowing the name.

84,000 copy-books per day. The country imported 10,121,000 copy-books in 1967 with all that capacity idling because of lack of an expert to operate it and keep it in working order.

oriented to local markets, quite a different situation is occurring in others more exposed to the international markets. Thoever proposed to set up factories destined to substitute imports, or facilities aimed at an upgrading of presently exported raw materials, will be earnestly disadvised of doing it, particularly if the smallest of capacities, however inadequate and incompetent, already existed in the country.

DESTRUCTING THE PLACES

- 11.1. It is a well known fact that the limitations of local markets do represent the of the most effective hindrances to the utilization of industrial capacities on leveloping countries and so it is in Africa, too.
- in a mpression that during the colonial rule they got a certain orientation which later on started changing under various influences, some of them political of come of them of other nature. The fact is, that the number of countries exporting to Africa greater increased and one should not wonder finding in one day an accurate some, not discuss, but thrity and more foreign countries selling for and the same kind it product. Judging from the number of business representatives from all parts of the kind, coming to Africa to offer their goods and services, one would think that it is one of the most coveted markets in the wind or that in their parts of the world pusiness in not any more what it used to be.
- ine subject to the penetration of goods coming from the Sear, inddle and Far mat. This tendency was very such intensified by some locate of the Suez Canal was a handle appear during exports to Africa and opened the doors to eastward and mount eastward and mount eastward oriented trade one inting prevalently in exports to Africa.
- ciarted come time ago establishing industrial enterprises in Asia in order to competit of low wage rates prevailing in these countries and gain a more competitive

position on the international markets. This is the type of product the African industrialist has got to compete with.

- 118. As if this were not enough, there came the goods from Shina (mainland), Taiwan and other places having unaccountable prices, bearing no proportion to those production costs a financing banker would accept.
- 119. What the result is, is easily imagined. A ruler (for schoolboys) imported from China costs not more than 1.2 US cents. The same size and quality ruler imported from Europe costs 4 cents. Produced in a certain African country in costs 6 cents. The same ruler costs at the wholesaler's 6 cents regardless of origin. It costs 20 cents in retail.
- 120. The government tried to protect the local producer by a rather high import duty ad valorem, but forgot, that the raw materials, to make those rulers and squares and what not, which equally had to be imported, were taxed by the same rate of duty, only that at the import of raw materials, taxes had to be paid, quite naturally, also on that part of material which as the conversion went into offal.
- 121. On the other hand, a high protection on a low cost item does not help much. The 30 per cent duty of 1.2 cents made out only 0.36 cents and brought the competitors price to 1.56 cents against 6 cents local production costs. The short and long of the story is, that the African producer now contemplates closing down his shop and devoting himself to trading. Dumping prices enhance merchant's profits, since merchants do not think it reasonable to drop their earlier prices. Since those rulers are anyway being retail sold at 20 cents, it would not help anybody to drop that price for two or three cents, as the difference between the 'himse and the Duropean price would allow it.
- 122. The example with the ruler, which equally could be applied to most school and office supplies is maybe not very impressive and, in the end, what actually happened is, that a 50,000 dollars worth of capacity will have to close down and that any new investor willing to embark into a similar kind of business will be turned down by the bank if asking for a development loan. It is however to be taken in evidence as illustrative of artificial conditions choking industrial development and utilization of capacities, equally applicable to small industries as to big ones.

- note that particularly after the closure of the Suez Canal, European manufacturers started losing the market in eastern African countries in favour of Asian and Mid-Castern ones. This they would have lost anyway because of the difference in price, which is all very well, only that any Eastern African country, wanting to establish its own production of tyres will have to fight a market dominated by cheap Asian products with practically no protection whatever on the part of their own countries.
- 124. It is a hopeless situation, since nobody could expect a rather small African tyre plant to be able to compete on the technology and productivity slone with a, say, big Japanese manufacturer.
- governments to "keep their market open" arguing that protective tariffs are penalizing the consumer. Thether the consumer gets more penalized through unemployment and deficitary of balance of payments or through a selective tariff protection remains to be seen. If foreign currency is scarce, the law of demand and supply says that it will get more expensive, and the difference will have to be paid for, in one case in favour of the country itself and in the other in favour of everybody else.
- to remain what they are. Yost African countries are in a position where unlimited imports cannot be any more maintained for the simple reason of lacking means of payment. Severting to cheaper foreign goods does not help much and harms more, because of not giving the country a chance to develop its own industrial production nor to utilize its own capacities and resources.
- 127. An industrially developed country imports more, not less than a developing one, so there is no question of avoiding imports altogether. The problem is only to shape imports rationally in order to enhance development and that is all.

JAPA ITIUS AND FOLEIGN LOANS

loo. Lack of capital forces the developing countries to make use of foreign assistance on a bilaterial basis in the form of various loans and grants. It

has been heard many times that such forms of assistance had "strings attached" to them without going into much detail explaining what those "strings" were. It was mostly assumed that they were of an obscure political nature and therefore not to be discussed in public. The fact is that they are quite generally of a most open and obvious nature, heavily influencing the recipient country's economic development.

- 129. It seems paradoxical to say, that economic assistance in a number of cases turns out to be something opposed to it. The reason for it is opportunism and selfishness. Executing an economic assistance agreement, both parties start in the best of spirits, getting with the progress of negotiations always more and more selfish until the agreement starts very much reaembling an ordinary business contract, with the developing country werse off than the other party. Why that is so will be easily understood if considered that newcomers are usually more readily believed than earlier partners and that any expert advising to the contrary is charged with partiality even if only asking for caution.
- 130. A striking phenomenon with such negotiations is the lack of co-operation-between assistance giving countries. Every single one of them considers every other country a competitor. If they all really had assistance in mind as their principal objective they would rather try to fit their contribution into a general plan, instead of trying to minimize, delete, or slander whatever any other country did in the way of assistance.
- 131. There is no doubt that some assistance giving countries established or constructed in various African countries a number of plants which subsequently proved to be complete failures, because of lack of local marketing opportunities, lack of capability for a break-through and lack of working capital. It often happens when one government makes to another a present of a factory and this latter one does not like the trouble of operating it, but still wants to keep the management in its own hand. Some of these factories have been closed down, some are operating beneath capacity and everybody is unhappy about them. The assistance giving countries are unhappy because they gave away good money, only to be blaned for it by the same country that obtained the value of it. Bad fame spreads quickly creating unwanted publicity and political ill-effects. Political competitors are of course trying to make the most of it by helping those unfortunate factories to drown completely.

- 132. The blame is to be put on all and everybody but first of all on that country which in the name of assistance erected a dairy industry in a country where expatriates preferred to have dairy products imported from Mest European countries and local population could not find any use for them. The same goes for slaughterhouses with no cattle to slaughter in or brick/ards in areas where bricks were not used. Governments surely could do somethin, about it as is obvious from the case of a Mest African tyre plant which could not use its capacity until lack of foreign currency forced the respective government to put a ban on the import of tyres. This it did simultaneously for a number of other commodities. In consequence, most of the local food industries proved to have inadequate capacities since earlier imports of processed foodstuffs in some cases held up to 90 per cent of the local market covered.
- 133. The case is related to a country which at an earlier stage obtained plenty of assistance from everywhere only to find that whatever assistance was given, it carefully avoided to infringe on imports.
- 134. Most, not to say all, forms of technical assistance supplied to developing countries in this part of the world are having one characteristics in common
 and that is crediting of deliveries from assistance giving countries. This
 excludes crediting of local works which invariably creates a trouble for the
 recipient country. In order to minimize local currency requirements, the respective governments are favouring inclusion in the loan agreement of all possible
 kinds of goods, including such items as are normally being produced locally,
 thus lessening the prospects for a better utilization of existing capacities.
 This refers in particular to steel structures and the writer knows of a case
 where during the last five or six years all industrial projects implemented
 under bilateral agreements involved steel structure deliveries from abroad,
 although this same country had half a dozen steel structure making enterprises
 in operation. Local enterprises were of course underutilized.
- 135. What has been said for steel structures is equally true for other building materials herein included: doors, windows, glass panes, roof claddings, paints, floor and wall tiles, furniture, fixtures, fittings and even dement. Thus, new capacities are being created disregarding proper utilization of the existing ones.

- 136. New investments, at their implementation, are representing a particular market enlargement helping the developing country to strengthen an initially weak market. Industrial development provides in itself a market for construction materials on which new industries could be based. Personal income resulting from construction works contributes to the strengthening of market. What this means for developing countries is easily understood if remembered that a developing country as a rule lacks the base on which an industry could rest.
- 137. It might be said that it was up to the loan receiving country to purchase those items under loan conditions or to leave it be and have it purchased locally. This is, however, only partly true. The developing country is actually compelled to utilize the loan or else the project could not be financed, only that such practices are very much lessening the value of the assistance preferred.
- 138. There is one western country who agreed to finance local project costs for up to 50 per cent which seems very forthcoming and laudable indeed. On the other hand, understandably enough, this same country wanted to rationalize local expenditures which it normally does by appointing an evaluator to appraise local costs and also to examine the project having possible savings in view. Evaluators, probably feeling that their task was to cut down the expenditure as much as they could, are inclined to mutilate the projects and failing this, to make underestimations not bearing comparison to reality. The operation results in lossening the loan beneath the promised proportion which is not the worst part of it. The local investor, naturally concerned about his part of the expenditure blames afterwards his own consultant seeing the costs transgressing over the limit unrealistically set up by the evaluator. The effect of the whole is trouble and dissatisfaction combined with stoppage of works for lack of finance.
- 139. Lack of financial means that could produce a better employment of local capital goods manufacturer, here included building materials, led to believe, that calling foreign private investors in, could provide for the required monies.
- 140. This again did not prove to be a panacea, since most African countries simply do not want the foreigners to own industrial enterprises by 100 per cent. Any lesser contribution on the part of foreign capital creates absolutely the same problem as economic assistance loans covering foreign deliveries only. This holds good in all cases where an African controlling interest in the equity is requested.

- 141. Wherever such partnerships appear, the foreign partner will invariably keep the management of the enterprise in his own hands, and for good reasons. He will also endeavour, and normally succeed, to keep also all the purchases of capital goods for the new factory in his own hands until his countribution will ressemble what is called a "contribution in kind". It is only to be expected that such contributions will be made devoting more care to the foreign investors benefit and to the productivity of his particular part of the investment. Cases are known where very obsolete machinery and equipment, including elsewhere dismounted steel structures, piping and wiring, else easily furnished by local contractors, were supplied under such arrangements and estimated beyond and above their market value. This, of course leads to a different capital productivity for the two partners, a higher one for the foreigner and a lesser one for the African.
- 142. But this is perhaps of less interest for the topic we are discussing. The main point is that the investment activity loses its strengthening effect on the local market. Instead of building up a market for locally produced capital goods it remains limited to low-level wage-workers' salaries for site works and construction, with scarce effect on the utilization of existing and future capacities.
- 143. As to the consumer goods market it should be remembered that with modern technologies the rate of investment for job gets very high an mounting. Millions of dollars are sometimes required to create a few dozen jobs. The better paid ones will be anyway reserved for expatriate experts, mostly used to the consumption of imported goods or else repatriating one part of their earnings, thus withdrawing them from local markets. The output of such new manufacturing facilities will be of certain beneficial effect on the country's economy through a lesser foreign currency expenditure and so in.
- 144. Considering however, that any loan or foreign capital participation must be paid off in foreign currency anyway, and that foreign capital will not participate where repayment prospectives are slow, it will be easily seen that the execution of a development project or any industrial investment for that matter could be of greater benefit for the country than the operation of the new facility itself, if only a greater part of the project could be executed by local manufacturers and enterprises.
- 145. With the progress of technology, these conditions will further deteriorate and an early solution of the problem is indicated. Or else, all those repatriations of capital, pay-offs and sending the carmings home will be simply made impossible coal mark to the

EXPATRIATES IN AFRICA

- 146. Speaking about textile mills it was observed that a particular African mill had on its production costs breakdown 5.64 per cent for local labour costs and 15.20 per cent for expatriate labour costs. The two components added up to 20.84 per cent which was at the time nearing the same proportions as found, say, in a western European plant, where the productivity was understandably enough on a much higher level. The case might be said to belong to the past since it was assessed six years ago, but then again it might not.
- 147. About scarcely more than a year ago, an African bank obtained an application for a loan to finance the erection of a small mill destined to manufacture textile trimmings, tassels and similar items made of imported synchetic fibres for a total of some US\$300,000. The new plant was scheduled to provide employment to 40 local workers getting US\$4.800 per annum and one expitriate expert getting a salary of US\$12,000 per annum.
- 148. A similar proposal came 1. recently regarding a small metal working shop, which, if it could subsist on exclusively indigenous labour force, might have been expected to make a net profit of some US\$13,000 per annum. These would be entirely consumed if only one foreign expert had to be hired to run the shop technically.
- 149. Big plants are faring better and fifty-fifty ratios as to cost of foreign and local personnel respectively, are often encountered. Still bigger plants might even achieve a thirty-seventy ratio in favour of local personnel, but those are not many.
- 150. Enterprises having to deal with such conditions are eliminated in advance from international markets, unless they are processing exceptionally convenient raw materials. They might be of some positive effect for the country's economy if substituting imported goods on the local market, particularly if most of the earnings cours remain in the country. With small-scale industries and small business in general they might be of quite a negative effect and cause a greater loss on foreign currency than if the respective goods were imported.
- 151. So far as the eastern part of Africa is concerned things are very much worsening in that regard and it is of some interest to see why. There is no denying the fact, that in the pas—there were plenty of small-scale industries and business enterprises flourishing, which are now simply fading away. Let us try to find out what is killing them.

- 152. To explain and understand it will lead us into listory since the first question to be answered at the investigation will be: Who were the people who established and operated those plants? Who else could they have been than people coming from other continents settling down in eastern Africa, bringing with them certain skills, far above those found on the spot but not so much superior to the average level of skills in a matries they loft. They were people of very much differing type and quality, ranging from highly efficient administrators, farmers and artisans down to dismissed soldiers, fugutives, wanderers, unemployed and displaced persons. Some of them established themselves in business were enough and others again did not do so well.
- 15%. As change came over Africa, the ones having nothing to lose by it promptly left the country and settled elsewhere. The ones tied in one way or another to the place they were living in stayed on and faced the consequences.
- 154. People that remained were mostly old-limers who sent their sons back home to secure a better future for them. The ones that remained were simple men who could keep flowing under the conditions of rough environment. As soon as the environment stand a changing they felt unable to cope with the change which unexpectedly tore them away from their one-sided orientation towards their mother country and hurled them at the mercy of quite a new set of people invading from all parts of the world.
- distressing to see an old artisan in his sixties or even seventies still trying to work with trembling hands on a safelock in his ramshackle workshop, in the company of a few local workers willing to stay with him for what they could earn. Other artisans retired. I know of a man who was at a time the only man in the country to repair a steam-boiler. He left the job and started small farming. There is in a place a foundryman who kept going on until he collapsed and the foundry closed down. In another place there is a foundry which could keep going if the man started manufacturing something for the market. Only that he does not know how to start doing it and castings are now increasingly being imported from Europe in spite of the foundry's 20 per cent utilization of capactury. And what is worse, nobody else wants to go into the foundry business since one foundry had to close down and the other is not utilized.

- 156. It is a pity to have to see it happening. These men were actually unpaid foreign experts, living on the work of their hands and the skills they had. Their earnings were commensurate to their usefulness, and those earnings were mostly spent in the country. It was the only way to have small business of certain significance carried on. The breed should be renewed.
- 157. Apart from such problems, there are problems of high level experts to be mentioned in order to see how their contribution could be made more efficient. There is no doubt, that a skilful man will more readily devise and organize the utilization of a plant's capacity than a less skilful one. On the other hand, a useful expert is always cheaper than a useless one and "economy-of-experts" starts getting the crucial point of many a country's general economy.
- 158. To start with, Africa is by no means an easy continent to live in, particularly in its tropical part. Farm and demp in one part, hot and dry in another. Very hot in the lowlands, very low atmospheric pressure in the highlands. All that impairs very much anybody's efficiency and quite a few people cannot stand it at all. It should be expected that younger people might stand it better than aged ones but this is not always so.
- 159. In point of human relations, any ambitious expatriate will soon find out, that Africa is not a place where expatriates are invited to make a career. Quite to the contrary. An expatriate vill early enough see his African co-worker rise in position and attain ranks white seeing his own position receding into the background and coming down to the level of just manpower and nothing else. Such relations require a psychological adjustment of which only more staid men are capable since there are selvion other incentives found to help to it.
- 160. Some countries giving assistance to African countries are as a rule sending younger people as experts, keeping them only a short spell on the job. Even foreign business enterprises are mostly sending younger people, simply because it does not pay to send the better salaried one. There is nothing wrong with it so far as foreign business enterprises are concerned. Those younger people will remain under somebody's supervision and if they do not give satisfaction, they will be sint somewhere else or fired or taken back. Much worse is the case where young inexperienced men are given an independent job or taken up into administration.

there those people are lacking experience is exactly the point where they themselves confronted with problems of insufficient development. Lack of contration and nervices makes them resourceless and so does their too much contrad technical training based on a very modern technology or their too tided knowledge of economics concerned with problems of the industrialized.

- The micro-and macro-economy of African countries is understandably enough affertwined with general economic trends in the world, and yet it is quite a different economy where rules of an industrially developed world do not apply. The main instruments of development are entimisiasm, perseverance, unselfishness, some of the country and very much wisdom. To bring a developing country forward against the developed world, more wisdom is required here than there. Nowhere can routine work help and nothing is good enough for a developing country. These are the only fixed rules that should be respected.
- 163. Before closing the chapter, there is still one more type of expatriates in Africa to be mentioned. They are those connected with big trading organizations, specialized for trading in developing countries; particularly before they started developing. As such, they are enjoying a high social status, and, since recognized as good businessmen unduly respected in point of industrial development. Some very serious blunders can be ascribed to their activity in Africa, ranging from factories lacking raw materials to factories lacking markets. Layue they should not be blunded too much since their intentions were good.
- 164. Quite the same as those of some Eastern countries who did exactly the same kind of mistakes but not in the same country. Whether from the East or from the Mest, blunders will be made because of an amateurish approach, or a bureaucratic treatment or bad expertising or just lack of experience. They are the human traits but, unfortunately, the African is called upon to foot the bill.

JONNHIES OF SIZE

165. A recently conducted survey on the development of sugar cane based industries in an African country revealed that the two sugar mills operating in the

educatry, and mand by one and the same foreign despany sould have been able conciderably to reduce their operating costs and produce cheaper owner, if they only had their capacity possed in one unit. Let us mention that the two miles are less than three miles distant one from the other. The two miles are producing only bleached raw sugar isomnalied "plantation white is at the country keeps on importing all of its consumption on refined sugar and cubes.

- 166. There is a third super mill now under construction for "plantation white" again, and the utilization of its capacity remains fully open for speculation. It should be also mentioned, that neither of the three milis provided for the utilization of molasses, which, in consequence, are being thrown away. To make things worse, the mills are about 500 miles distant from the nearest sea point which should be a great handleap at any ittempt to export the sugar.
- 167. In another case, somebody proposed to set up a paper pulp mil' of a capacity of some 15,000 tons per annum since a paper mill (now under sonstruction was supposed to use only some 6,300 tons of that pulp, the rest was planned to be exported. 'abculations promptly showed, that this would cause a considerable loss. The mill had to be established in a place where adequate water and raw materials meet, and that is nowhere near enough to the tide-water line, and the pulp would incur insufferable had age costs if exported, besides being too expensive as to production cost, due to the high fuel value if the raw materials and, last not least, inadequate capacity of the plant.
- 168. Subsequent calculations proved that the plant could be made profitable only if its capacity was eight to tenfold of what it was proposed to be. In the meantime, other African countries got a taste for it, under apparently better conditions and the export probability ourved down.
- 169. It is difficult to accept, that the consultant proposing a capacity of 15,000 tons per annum did not know in advance that it was hopeless to expect profitability from it, except under a heavy fiscal protection, and in no case if counting on expert. It is more likely, that the consultant was a victim to certain prejudices which are prompting some experts from very industrialized countries not to make anything big in Africa. Big new enterprises might cause trouble on the international market. Besides taking over the local market, they would intrude upon the other ones and that simply would not do.

- This does not regard industrial enterprises only. A reputed Meet-Suropean consistant called in to make some agro-industrial studies, proved, that a modern write farm to operate profitably in that country should be of the order follows. The tares of the tares of the farm size for that country and that 1,000 or farm were the maintained, farm size for that country and that 1,000 or farm were the maintained. They maid cand up to down were to a said-order while apital.
- Intititions asserted, that principles of Technomieconfessed did not apply in the solutions asserted, that principles of Technomieconfessed did not apply in the solutions. In it not strange to think that they about not where he markets are small and the international market the only suited for surplus, where see the solutional problem, to employ expatriates the other problem, where more research is required don't lesser knowledge of indigences saterials and resources, where tistant are a major problem, and fuels a possibly expensive, requiring big pro ensure units to save on it.
- The onversion dusts but sometimes even more on raw materia, costs and still sore the attainable sales prices. The high level of prices of ertain goods in the virial countries may make a small reparity temporarily profitable if all the cutput can be lecally soid. Not so if the product is to be soid in export where it is not even and most of the possible profits are lost on transport costs and forced barriers. These disadvantages can be offset only by exceptionally conve-
- contrary to general belief. Africa as it is, particularly in its tropical tort, does not yet dispose of very convenient raw materials, maybe they are there, only that they were not yet properly explored and most of all, they have not been developed.
- the iness which foreign private capital will seldom take a risk in. It is propored to invest in safe business propositions ensuring a quick return. So all the exploration of mineral resources, power plants and irrigation schemes in efft to the country itself, which besides having to look for them must also concess the processability of its minerals, the cropping patterns of agricultural lands and the saleability of the produce before it could persuade anybody to take a hand in it.

175. Avoiding generalization, one should say in conclusion that every case should be examined for itself, and decided upon for itself. It should be however expected, that if exports are envisaged, nothing short of big enough capacities will do.

CONCLUSIONS AND RESONAL HOATTONS

Inutriazed capacities should be investigated singly in order to see how they are operated and whether their non-utilization is due to internal or external factors.

Internal factor will include bad design, poor technology, lack of knowhow, poor productivity, inflexible orientation towards a few products although a greater variety could be produced under slight adjustment of equipment, bad calcomanship and generally bad operation.

fiscal protection of local industry (inconsistent tariff rates), unsuitable, expensive or outright lacking raw meterials, loss of market caused by acts beyond influence of the company, inadequate supply of power, water and other causes of that kind.

2. A number of industries are doomed to remain tied to local markets as is the case with common building materials and, so far as developing countries are concerned, with a variety of food and beverages industries.

Further, all the sham industries, not actually producing things, but limiting themselves to the exploitation of investment incentives will naturally remain limited to local markets of one down after expiry of tax holidays unless they start utilizing materials of local origin which they are now not doing.

- 3. Each country has got only a few real opportunities for the establishment of significant, exporting industries. These opportunities should be aggressively utilized applying the latest technology, and the most modern principles of industrial engineering to secure the highest possible profit rate. Such industries should invariably tend to finalize their product utilizing the opportunity to keep all intermediate operations in their hand.
- 4. Industries having a limited market for one product alone should tend to add to it related products, which may partly utilize available capacities and on the other hand split the overhead costs.

5. Governments should not allow small markets to be atomized by an excessive number of uneconomical plants.

Plants should be of a size offering an opportunity for economic operation even under conditions of no fiscal protection at all. Setting two or three plants on one and the same limited market does not burst monopolies, it only boosts the prices.

- 6. Skilled artisans from abroad should be given the highest incentive to come and settle down in African and operate their manufacturing and servicing business there.
- 7. Governments should devote all the attention needed to the establishment of rationally devised customs tariff, enhancing the utilization of domestic industrial capacities, particularly those which are labour intensive.
- 8. Investment incentives should be also oriented to contribute to a better utilization of existing facilities. Market-creating industries should be preferred and market-splitting discouraged. Upgrading of local skills and material should be realistically appreciated and related to benefits accorded.
- 9. Acquisition of capital goods, which may be locally produced, where terms of loans and "contributions in kind' are favouring their import, should be closely examined in order to secure a better utilization of locally available capacities.
- 10. Nore attention should be paid to the development of any country's raw materials, whether of agricultural or mineral origin, in order to bring them to the level required for rational processing. This regards rather their qualitative than their quantitative aspect.
- 11. Berious thoughts must be dedicated to the problem of expatriate labour in developing countries. Their role, costs and incentives, which may induce foreign labour to devote all of their efforts exclusively to the welfare of the country they serve, should all be studied.
- 1?. There is no doubt that there are cases, where free capacities can be utilized to a more satisfactory degree if used to produce goods that may be exported. This should preferrably occur within the frame of regional common markets, for which reason, some problems inherent to common markets should be further studied.

Export of such goods should not be made on the account of local prices and common markets should not deprive less developed countries of their own chances for industrialization.

Utilization of free capacities should be considered as more beneficial if achieved through local marketing, and all the efforts of the various industries should be primarily oriented in that direction. The respective governments should lend them all their assistance at it.



