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UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

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Final Report

of the

DIDUSTRIAL DEVELOPMENT NISSION

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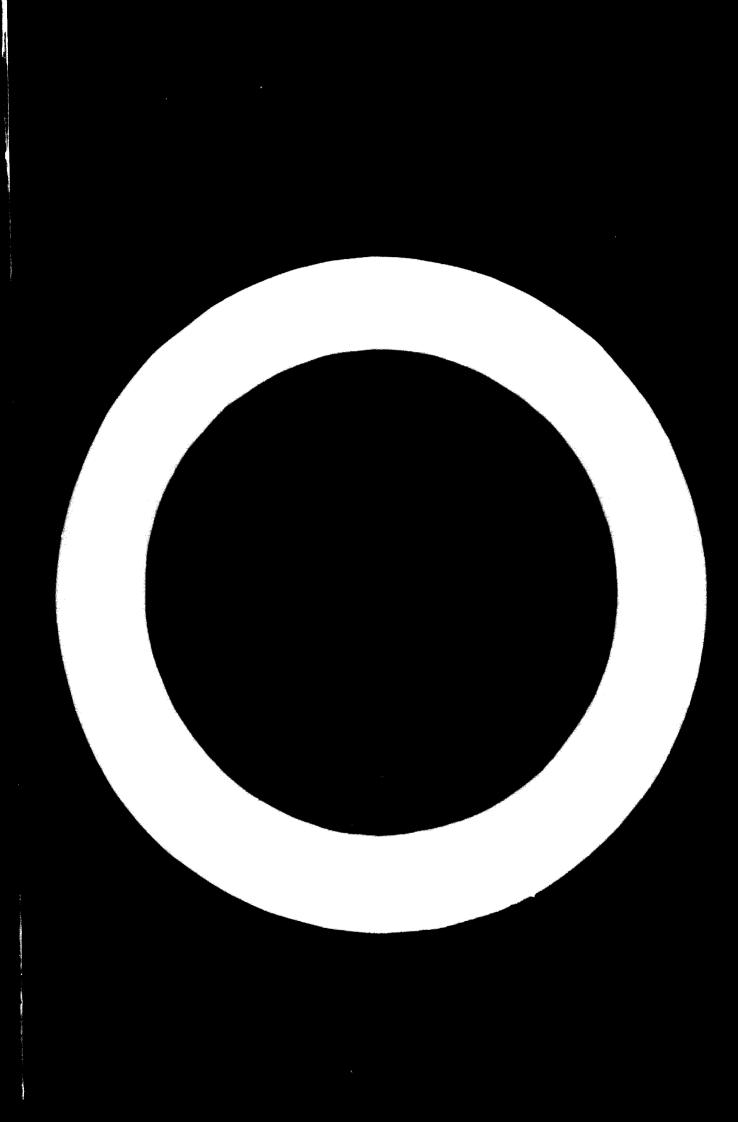
CARIFE COUNTRIES

December, 1968 - June, 1969

WIDO, Vienna

July 1969

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PREFACE

The governments of Barbados, Guyana and Trinidad C. Tobago, acting on behalf of all the participants of the CARIFTA Agreement, asked the Economic Commission for Latin America (ECLA) and the United Nations Industrial Development Organization (UNIDO) for assistance in formulating a programme of industrialization in the CARIFTA region. In compliance with this request, a team of three experts was appointed by UNIDO: an industrial economist as the Team Leader for cix months, and a food processing industry expert and textile industry expert for a period of four months. The members of the mission arrived at Port of Spain during the last fortnight of December 1968. After briefing sessions in Vienna and Port of Spain, the team assumed duties in the ECLA Office for the Garibbean in Port of Spain on December 23, 1968. The team was later supplemented by experts from ECLA, Santiago on the pulp and paper and chemical industries.

The tasks assigned to the Mission were "to identify and appraise specific industrial projects which could be implemented within a programme of regional industrialisation and suggest possible ways of implementing such a programme." The Team Leader was given particular responsibility for "outlining the type of policy required to launch a Programme of Regional Industrialisation and the way in which it might ensure that more industries are established in the lass developed territories in the future."

After a brief review of the economic conditions in the CARIFTA and the nature of industrial development so far, the report considers the prospects and possibilities for further development of the textile, foodprocessing, chemical and pulp and paper industries. Wherever possible specific projects suitable for implementation as Integration Industries are identified. Then after examining the scope for industrial development in the less-developed territories, the report considers what additional policy measures are required to implement a balanced programme of regional industrialisation and the institutional framework required to implement these policy measures. The report concludes with a suggested programme of follow-up action and identifies the form which further UNIDO assistance might take.

(i)

This report of the Mission provides only summaries of the reports of the four industry experts. More detailed reports by the technical experts on the textile, food-processing, chemical and pulp and paper industries will be made available for limited distribution at a later date.

Eleven CARIFTA countries were visited in addition to Belize. These countries are widely disported over a thousand miles of sea. Given these circumstances and the limited time available, there were obvious difficulties in collecting sufficient and comparable data to fully examine industrial possibilities in the Region.

However, everywhere the Mission met with the fullest co-operation from the Governments, and we wish to thank all those who gave of their time and energy to help us.

The Mission also wishes to record its appreciation of the assistance and co-operation received from Mr. S. St. A. Clarke, Director of the ECL: Office for the Caribbean in Port of Spain, and from Mr. G. Namporsad, Deputy Director of this Office. Their devotion to the realization of economic development in the area and their deep understanding of its problems greatly facilitated the tasks of the Mission. Ne would also like to thank Mr. Fabio Arango, Administrative and Coordinating Officer of the ECL: Office in Port of Spain, as well as the secretarial staff of this Office for the assistance they gave. The assistance given us by Mr. Campbell, the Regional Approximative of UNDP, and his staff in Port of Spain is also acknowledged.

> Kamal N. Hosni (Team Leader)

July 1969 Vienna

SUMMARY OF THE MISSION'S FINDINGS

THE BACKGROUND TO INDUSTRIAL DEVELOPMENT

The CARIFTA Association Agreement has created a regional market of 4.5 million people with an average per capita income of US \$429. Jamaica (population 1.9 million) and Trinidad and Tobago (population 1 million) enjoy a higher standard of living than the other territories.

The industrial sector makes a relatively small contribution to national income, except in Jamaica and Trinidad and Tobago where it accounts for over 15% of gross domestic product.

Chiefly light industries and assembly-type operations have been developed so far. Plants are typically of a small size designed to serve only the local market. Existing policies in many countries permit continuing reliance on imports of parts, materials and components.

In Jamaica and Trinidad, about 2% of the output of the industrial sector is exported. In Trinidad, petrochemicals and fertilizers are the main products exported. In Jamaica, Barbados and some of the other islands, export-oriented industries have been developed to use the skills of the local labour force.

The small size of the market, inadequate machinery in many countries to identify and promote specific projects, inadequate tariff protection, and a lack of appropriate industrial financing institutions have typically been the main obstacles to faster industrial development. In the lessdeveloped territories, inadequate infrastructure has also been a major disincentive.

The signing of the CARIFTA Association Agreement will provide at least limited opportunities to establish larger-size industrial plants oovering a wider range of branches of industry to serve local market needs. More export-oriented industries based on the abundant supply of labour and in some cases local raw materials could also be established. However, the CARIFTA governments should not expect industrial development by itself to reduce the high levels of unemployment prevalent in the region. A balanced programme of economic development is needed.

SCOPE FOR DEVELOPMENT OF FOUR BRANCHES OF INDUSTRY

One of the main aims of the Mission was to identify specific projects in the textile, food processing, paper and pulp and chemical industries which could be established to supply all or a major part of the regional CARIFTA market. Preliminary investigation of these branches of industry suggests that the following major industrial plants could be promoted in the near future:

- 1. a large modern cotton textile mill;
- a large textile mill producing man-made fibre and blended fabrics;
- 3. a plant to manufacture animal feedstuffs;
- 4. a plant to manufacture corrugated cardboard packaging material;
- 5. a plant to manufacture caustic soda.

Further investigation is likely to show that a wide range of projects can be established in the food processing industry in such fields as dairy products, meat processing and fish processing. There appears to be scope for local formulation and packaging of a wider range of pharmaceutical preparations, and more local production of cosmetics, soap and toiletries. It might be feasible (given adequate protection) to manufacture some grades of paper from pulp manufactured locally from bagasse mixed with imported pulp.

CARIFTA market cannot support an integrated plant to produce pulp and paper from local timber resources, but detailed feasibility studies may show the possibility of establishing an export-oriented plant. Other new major chemical and petrochemical projects would have to serve principally export markets.

INDUSTRIAL DEVELOPMENT IN THE LESS-DEVELOPED TERRITORIES

The Mission noted that the less-developed territories contribute roughly 5, of the value added in the manufacturing sector in the CARIFTA region, compared with their population of about 15% of the regional total. Jamaica (excluding the bauxite and aluminium industry), Trinidad (excluding petroleum refining but including petrochemicals and fertilizers), Guyana (excluding bauxite production) and Parbados together account for 95% of the value added in the manufacturing sector compared with their population of 35% of the total.

When considering policies required to launch a balanced programme of regional industrialization, the Mission considered what steps could be taken to ensure that some Regional Integration industries would be established in the less-developed territories. It believes that both the licensing system, and possibly the harmonization of incentives as well, will have to take account of their legitimete needs.

The Mission has outlined in a separate chapter, Chapter IV, some of the directions in which the less-developed territories can, on their own initiative, expand the range of small industries designed to serve local and export markets. Furthermore, a pilot plant project to investigate new ways of processing agricultural products is recommended for location in the East Caribbean.

POLICIES REQUIRED

The Mission proposes that projects supplying all or a major part of the CARIFTA regional market be defined as Regional Integration industries. A regional licensing system is recommended which would permit the governments of CARIFTA to agree on the location of all such new projects. Such decisions should be based on detailed technical and economic studies. The Mission believes that such studies would show that some of the Regional Integration industry projects could be located in the lessdeveloped territorier.

A strengthening of the CARIFTA Secretariat and assistance of international experts is recommended to design and implement the regional licensing system, design and implement a common tariff structure for industrial products, and to review the need for new industrial financing institutions and other industrial policy measures.

(v)

MACHIMERY TO IMPLEMENT POLICIES AND PROJECTS

The Mission recommends a substantial expansion and strongthening of CARIFTA's institutional machiners to implement policies and projects involving regional co-operation in the field of industrial development. The major recommendations are:

- 1. To establish a CARIFTA Industrial Development Centro staffed by nationals of CARIFTA countries and assisted by a team of international experts recruited by UNIDO. The functions of this centre are considered in detail in Chapter VI.
- 2. To strongthen the CARLETA Secretariat so that it can advise on the formulation and implementation of industrial policies required to launch a regional programme of industrialization; this might be facilitated by a request to UNIDO to supply a group of Industrial Policy Advisers.
- 3. To consider establishing a regional pilot plant project in the East Caribbean to investigate the industrial processing of agricultural products grown in the CARIFTA region to produce (a) ready-prepared foods for local and export markets and (b) essential oils.

These and other recommondations made throughout the report have been collected together in Chapter VII, which outlines a programme for followup action for consideration by Governments and the Council of Ministers. Mere relevant, suggestions for further assistance from UNIDO have been made.

I. MAIN ASPECTS OF THE GENERAL ECONOMIC BACKGROUND TO INDUSTRIAL DEVILOPHENT IN THE CARIFY COUNTRIES

1. The CARIFTA area consists of eleven territories: Antigua, Barbados Dominica, Grenada, Guyana, Jamaica, Montserrat, St. Kitts-Nevis - Anguilla, St. Lucia, St. Vincent, Trinidad & Tobago. Belize hopes to accede to the CARIFTA agreement. At the request of the CARIFTE governments, Belize has been treated in this report as if it was a full member of the Caribbean Free Trade Association. The basic economic data provided in Tables I and II therefore covers all 12 territories.

2. The total area of the CARIFTA zone is 99,485 square miles (256,315 square kilometres). Total population is about 4.5 million and is estimated to be growing at 3 per cent per annum. These basic figures do not give a fair idea of the uneven distribution of land and population among these countries. Belize and Guyana account for 90 per cent of the total area with only 19 per cent of the total population, whilet Barbados, Jamaica and Trinidad and Tobago account for 6.5 per cent of the total area with 70 per cent of the total population. The average population per square mile for this zone is 47 inhabitants; however, the population distribution among the different countries varies significantly. In Guyana, for example, there are only eight inhabitants per square mile while Barbados has 1,495 per square mile.

3. Many of the CARIFTA countries enjoy a standard of living higher than that reached by the majority of developing countries. The total Gross Domestic Product of the area in 1967 is estimated to be US\$ 1,921 million, and the average G.D.P. per capita appears to be US\$ 429. Trinidad and Tobago and Jamaica, which have 65 per cent of the population account for 80 per cent of the area's total G.D.P. The standard of living in the territories varies between a G.D.P. per capita of US\$ 167 in St. Lucia and US\$ 689 in Trinidad and Tobago.

4. Unemployment is a major problem in the CARIFTA countries; it is estimated that the proportion ranges between 12 and 13 per cent of the labour force working age. Export agriculture has been traditionally a large employer of labour, but increasing mechanization in the sector has reduced the absolute numbers employed. At the same time, new entrants to the labour force have been increasing at the rate of 2 per cent to 3 per cent per year. The need to provide employment opportunities for this increasing labour force has resulted in emphasis being placed on the development of sectors other than export agriculture, including industry. It is, therefore, particularly important to necelerate the pace of growth in the industrial sector. This will also create opportunities for the development of related service activities.

5. Unfortunately, data on employment in the industrial sector are not available for all territories; even these available for Jamaica and Trinidad and Tobage are not comparable. It is, therefore, difficult to assess the precise contribution which the industrial sector makes to total employment. In Trinidad and Tobage, the Survey of Industrial Establishments made in 1957 showed employment of about 50,000; employment in 1968 is estimated to exceed 100,000. In Jamaica, firms operating under the incentive laws employed over 11,000 persons at the end of 1968. Employment in these firms is estimated to be about 15 per cent of total employment in the manufacturing sector. It appears therefore that whilst further industrialization can make a contribution to solving the unemployment problem, what is needed is a programme of belanced development.

6. A fundamental weakness in some countries of this region is the lack of positive and effective national planning; as a result the main communic meeters have developed in isolation. The inter-sectoral transactions which are most important in proporting the growth of a viable industrial meeter are minimal. This situation can only be remedied by effective economic and model planning both at the national and regional levels. Its primary objective should be to promote adequate exploitation of the human and physical resources of each country within the framework of regional second development, and to integrate the activities of the various economic meeters. A suitable policy regarding the flow one use of foreign aid must be established Measures need to be introduced to increase the volume of domestic mavings; at the same time an expended programme for identifying investment opportunities in the form of specific projects in both the industrial meeter and other meeters needs to be developed.

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7. A pro-requisite of effective plenning and policy decision-making is the availability of comprehensive basic statistics. In some territories in the region, statistics are fairly well-developed, although even in the most advanced, some important statistics are not available in adequate detail. The problem is most acute in the less-developed territories and Belize. This deficiency constitutes a serious handleep to sound planning. It is therefore most important that the Regional Development Agency speeds up the establishment of a central statistical service to provide up-to-date reliable data relating to the various economic and social activities in its member countries. It will also be important in the near future that C RIFTA Secretariat publishes statistics on a comparable basis for the whole CARIFTA area.

8. Effective regional planning for the CARIFT.: countries as a group cannot be undertaken unless there is effective planning at the national level. Some thought needs to be given to the problem of co-ordin.ting the various national plans so that regional objectives are realised. Serious consideration might be given to establishing a Centre for Regional Planning under the control of the CARIFTA foretariat. The objectives of such a centre might include: (a) preparation of a master plan for economic development in the region; (b) preparing studies on the regional hermonization of the different national economic plans and policies; (c) providing technical assistance in planning and project properation in the less developed countries; (d) providing other advice, consulting services and studies in the field of planning and policy formulation as required.

9. The mobilization of an adequate volume of financial recources to finance development in this region needs special attention. The CARIFTA member countries, like many underdeveloped countries, suffer from shortage of capital available for investment in the area in an appropriate form. However, a large volume of the area's savings is held oversens as investments at present. It is beyond the scope of this report to make a detailed study of the structure of money and capital minkets in the Region, but there is obviously scope for using a greater proportion of these domestic revings to finance local development projects, including industrial projects.

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10. The present policy of the Central Bank in Guyana, Jamaica and Trinidad and Tobago aims at controlling only the volume of banking credit. They have not yet tried to implement a qualitative credit control which takes into consideration the requirements of a balanced acvelopment of the different sectors of their national economies. Furthermore, the commercial banks' participation in financing development projects is very limited. Industrial development can therefore benefit from a more liberal lending policy on the part of the commercial banks. Similarly, the East Caribbean Currency Authority (ECCA) which controls the monetary system in antique, Barbados, Dominica, Gronada, Montserret, St. Kitte-Nevis-Anguille, St. Lucie and St. Vincent appears to limit the ability of these Covernments to finance their own development projects from local sivings. It should be noted, however, that thes Governments have made little use of the facility provided by the Authority Act which permits the holding of some Government loan securities. In Belize, the monetery situation is like that in SCCA. There is a need to convert this Currency Board to a central monstery authority with the ability to perform a more direct role in financing development projects.

11. The commercial banks in the CARIFTA region are almost exclusively branches of foreign banks. They pay interest on deposits from 3 per cent to 5 per cent per annum, while loons and advances are made at between 9 per cent and 10 per cent. For industry, their credit facilities usually take the form of overdraft facilities rather than medium and long-term loone; yet hire purchase credit is extended for the purchase of imported durable consumer goods. This policy of financing imports of luxuries or semiluxurion is a poculiar one in an area where there is a large amount of domestic unemployment, where there is an urgent need to mobilize more domestic recources for development, and where some governments are forced to borrow from abroad to finance their development projects. Left to maximize their own profits r ther this meximize benefits to the countries, the monetary and financial institutions invest abroad the funds which they borrow locally. The financial and monetary institutions represent the nervous system of the whole economy, and when the brain, which in this case is the Central Bank, does not function adequately, the development of all

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economic sectors, including the industrial sector, suffer from the inadequate financing possibilities provided by the banking sector.

12. The insurance companies operating in this region control a large part of the savings of the community; but they invest only a small percentage of their available funds locally, mostly in real estate. Whilst the nature of their liabilities limits their participation in risky invostments, both the Gevernment and industry should be able to raise more long-term investment funds from this source of national savings.

13. Therefore a therough review of the monotary and credit policy and institutions in these countries is needed. The powers of the central monetary authorities in controlling the financial and banking institutions must be strengthened, not only from the administrative and statistical point of view, but particularly over their investment policy. Without this, it will be difficult to ensure an adequate distribution of investment resources among the different sectors of the economy.

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TABLE I (page 6)

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TABLE II (page 7)

11. THE PRESENT STRUCTURE, CHARACTERISTICS AND PROBLEMS OF THE INDUSTRIAL SECTOR IN CARIFTA COUNTRIES

The importance and structure of the industrial sector

14. Table II shows that the manufacturing sector already makes an important contribution to the economies of Jamaica and Trinidad and Tobago, and a significant contribution in Barbados and Guyana. In the other eight countries the manufacturing sector makes only a small contribution to G.D.P. These eight countries contribute only 4% of the value added by manufacturing in the CARIFTA area as a whole (although their population is roughly 15% of the area's total). Jamaica and Trinidad Account for 85% of the total and Barbados and Guyana the remaining 11%.

15. In <u>Jamaica</u> the manufacturing the processing sector accounted for US\$ 132 million or 14.9% of Gross Domestic Product in 1966. Twenty-five per cent of this industrial production was exported, mainly to the United States. Food industries (including sugar, rum and molasses), beverages and tobacce accounted for US\$ 62 million or 48% of the value added in the industrial sector in 1966. The other main contributors were: metal products and repairs, textiles and made-up textile goods, printing, publishing, and paper products, chemicals and chemical products.

16. In Trinidad and Tobago the manufacturing sector accounted for 17% of the Gross Domestic Product in 1967. Between 1963 and 1968 the soctor grow at the rate of 7% per annum, faster than any other sector in the economy. But, excluding petrochemicals (mainly fortilizors) and sugar, the growth rate of the manufacturing sector between 1963 and 1968 was only 4% per annum. However, the growth of the garment industry was particularly sharp, averaging 8% por There has also more recently been an expansion of food year. processing enpacity. The traditional items of manufacturing on the whole with the exception of margarine and lard substitute, soap and coment did not increase their production significantly between 1962 Production of beer and stout has increased somewhat and 1968. slowly, while production of rum, eigeretttes, edible oils and matches stagnated.

17. In Barbados, the industrial sector consists of a variety of light manufacturing consumer goods industries. The majority of these industries are oriented towards the production of feed products and beverages, garments and building materials. Recently the structure of the industrial product has been widehed by the establishment of industries for paint and paint products, pharmacoutical products, scap and detergents, furniture and fixtures, and a variety of miscellancous products. A large part of the manufacturing sector still consists of small enterprises in traditional activities - dressmaking, tailoring, ropairs to cars, handicrafts, ctc. The greater part of industrial production is geared to the domestic market, but there is a narrow range of products specifically designed for export; these include semi-processed food (shrimps), assembly of electrical equipmont, ready-to-wear garments, costume jewellery, toys and metal producte.

18. In <u>Guvena</u>, apart from the processing of sugar and the milling of paddy into rice, the manufacturing sector is comparatively small both in terms of value - added and in numbers employed. Most enterprises in the sector are geared to the production of consumer goods, though there are also others that are producing some types of building materials, notably lumber and paints. The commodities that account for the bulk of the production of the manufacturing sector are eigerettes, matches, margarine, edible oil, carbonated beverages, beer, stout, rum, soap, detergents, paints, confectioneries, readymade clothing, animal feed-stuffs, drugs, furniture and tyre remoulding.

19. In <u>Antigue</u>, the manufacturing product in 1967 accounted for an estimated US\$ 1,400,000, representing 5% of the Gross Domostic Product. There is a small oil refinery; the usual light industries such as construction material, coment blocks, aluminium windows, wooden doors, furniture metalwork, tourist novelties and run distilling are in operation. Besides, a cotton ginnery was expanded recently and a complete plant for seed crushing was installed; these are not operating as there is neither cotton nor seed. The crushing plant is being converted to take copra. Finally, a well installed corn mill is operating on imported materials.

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20. In <u>Belize</u>, the menufacturing product in 1967 amounted to US\$ 3.1 million, representing 9.3% of the Gross Domestic Pr duct. The local small industries are fish processing, one garment fectory, eigerettes, footwear, rum, industrial gases, storage batteries, merated water, mattresses, louvred windows, tiles and type recapping.

Dominica is a relatively large island with obvious touristic and 21. agricultural potential. The manufacturing and mining production in 1967 accounted for US\$ 1 million, representing 8.3% of the Gross Domostic Product. Dominica already has an infant furniture industry with ingenious local craftsmen; they require designs and pattern books as well as full training to develop their skills so as to supply There is a convent-sponsored a propertion of the hotel furnishings. grass matting and tourist novelty handcraft industry; the quality and design are excellent but production has almost ceased owing to lack of grass which grove in the wild state; experiments have been started to grow it commercially. Two existing small garment factorics indicate the future potential; and a well equipped factory makes oil and soap from copra. Construction materials based on local pumice are well established. Finally, a modern bakery is equipped with a large Beker Perkins machine for biscuit production. This general baking business is suffering from lack of capital and It is working at low officiency. expertise.

22. In <u>Grenada</u> the manufacturing scotor, in 1967, accounted for US\$ 0.6 million or 3% of the total Gress Domestic Product of the country. Some thirty-four establishments comprised the sector in 1968. The main groups of the industrial sector are handicrafts and service industries for tourism, furniture making and small industries based on local fruits and vegetables.

23. <u>Montserrat</u> has a good tourist and retirement home potential. This island has been chosen by many americans and Canadians who are potential entropreneurs. Manufacturing output in 1967 was not more than US\$ 100,000 in the total of US\$ 3.3 million of the Gross Domestic Product. The main industries are laundry and cleaning, ear repairing, type recapping service jobs plus skilled joinery, construction work and distilling. 24. In <u>St. Kitts-Nevis-Anguilla</u>, the manufacturing production, in 1967, ammounted to US\$ 1.4 million, representing 6.3% of the total gross domestic product of these islands. Apart from a solidly established sugar industry which is processing cane sugar with a new method, there is a well equipped laundry and cleaning plant and another small one for tyre recomping.

25. In <u>St. Lucia</u>, apart from a flouriching tourist industry and the successful banana industry, there are a dozen small industries. The value of manufacturing production in 1967, amounted to US\$ 0.6 million of the total of US\$ 16.7 million of the Gross Domestic Product of this island. Two prosperous assembly industries based on import of materials and export of finished goods indicate that the cheap and willing labour can be used for many further assembly industries if only they can be attracted to the island.

26. <u>St. Vincent</u> is in the carliest stage as regards industrialisation. In 1967 its manufacturing product accounted for US\$ 200,000 representing approximately 1% of the Gross Domestic Product of the country.

Charactoristics of industrial development in the GARIFTA countries

27. Sotting aside the oil refineries and the petrochemicals associated with them, most of the manufacturing industries established so far in the CARIFTA area aim at producing consumer goods for which there already existed a demand satisfied by imports. Typically in the region, this has entailed importation of raw materials, capital and technology, so that essentially domestic value added is confined to the employment which is created. This type of industrialisation does not make as significant a contribution to the national economy as industries based on local raw materials and/or locally manufactured component parts. There is little processing of domestic raw materials for export markets; fabricating imported raw materials mainly for export markets has been confined chiefly to the garments industry so far.

28. As a result the industrial sector relies heavily on imported inputs; and there is insufficient backward and forward linkages between this sector and the other sectors of the economy. 29. The smallness of the national markets has affected the size of the enterprises which are usually geared to supply only the domestic market. It has been one of the determining factors in the concentration on light industry, and also partly accounts for the lesser importance of more complex industries. When the operation is to assemble for foreign firms, the size of plant is determined mainly by the volume of export contracts available.

30. The creation of CARIFTA will provide at least limited opportunities to overcome these short-comings in the type of industrial project established so far. Larger size plants will become feasible, and there will be greater scope for developing local supplies of rew materials and other imputs.

Some problems faced by industry in the CARIFTA countries

Infrastructure

31. Apart from Barbados, Jamaica and Trinidad and Tobago, the conomic infrastructure such as electricity, water, roads and telephones leaves much to be desired; this constitutes a disincentive to investment. Mercover, the inadequate shipping facilities cause delays in obtaining raw material, equipment and replacement parts, and also in the delivery of products to the market. Transport inadequacies and the attendant costs are exagerated by the wide geographical dispersion over a thousand miles of sea; this usually means at least one additional stage of handling and shipping for materials and finished preducts

Labour and management

32. Labour in general is readily available and amenable to training. However, shortage of skilled menpower and limited training programmes have resulted in low productivity. A solution to this problem is urgently needed, and the first steps must give priority to the training of instructors and foremen for industry, and to the teaching of technical skills in all fields. Moreover, the fact should be noted that wages in oil and bauxite industries and to a lesser extent in hotels, are much higher than in the other comomic sectors. This tempts the labour unione to push for higher wage rates in other industries. But at present, unemployment is high and a large proportion of the labour fore exists on a minimal basis with no resources. 33. In the exercise of menagerial functions there are meny apparent weaknesses. This does not apply to those firms that are subsidiaries of, or operate under franchise from, foreign companies, and are consequently able to draw on their principals for assistance. One UN expert observed that 'The most obvious deficiencies are in costing, inventory centrol, quality control, lack of technical 'know-how' and bad housekeeping'. Special attention therefore needs to be paid to organising and training executive and administrative personnel.

Industrial financing

34. To this must be added limitations of industrial financing, which is still largely based on the reinvestment of profits. The formation of public joint-stock companies and the use of the stock exchange have only just begun. The dominant form of the individual and family ownership of enterprise has affected not only the capacity to borrow from the banking system, but it has also limited the recruitment of qualified persons at various levels.

35. Domestic sources of funds are not fully mobilised for the needs of industrial sector. The commercial banks have been effective institutions for the attraction of funds, but adherence to the banking practices described above (Chapter I, paras 10, 11) has rendered the use of these funds for industrial purposes limited. The commercial banks have made a major contribution to the provision of working capital but their adherence to the commercial loan practice has limited the provision of funds as long-term loans needed for the establishment of industry. The great emphasis placed on security and a preference for well established clients has had the effect of limiting the bank credit available to entrepreneurs. The rate of interest is usually 9% to 10% per annum against a prime interest rate of 75%.

36. Insurance companies have also attracted large amounts of funds; but the small percentage of their available funds which they invest "in CARIFTA countries, has been limited to real estate. Certain investment houses are prepared to make medium-term loans, but their rates are reputed to be around 10% per annum. The Industrial Development Corporations in Barbados, Guyana, Jamaica and Trinidad and Tobago are the only other institutions catering to the need for industrial

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financing at present, but their capacity for lending is limited. 37. Another major source of finance for local enterprise is share capital. Nost of the smill enterprises are owned by individuals and families; a small number of them issue shares to a limited number of outside shareholders but the use of Public Company is extremely limited. The encouragement of the latter type of companies is very important to the promotion of new industry, since net only does it secure the necessary capital for new industries, but it promotes the mebilisation of local savings and local ownership of industrial enterprises.

Markoting

38. The marketing of industrial products in the individual domestic markets has not been a major problem. Modern techniques of mass communication - cinema, radio, television and newspapers - have been adequate. Frequent use is made of display counters, exhibitions, etc. The distribution of goods in the domestic markets has also been facilitated by the existence of commission agents with well established facilities. However, the menufacturing plants must contend with a certain vulnerability to goods mass-produced in other countries or even dumped by foreign companies.

39. The ignorance of the possibilities of markets in the other CARIFTA member countries is very striking. The CARIFTA Exposition 69, held in Grenada during the last fortnight of April, was able to introduce some locally-produced goods to the consumers in the different CARIFTA member countries. But expositions alone are not sufficient to enlarge and secure a stable market. They must be backed by continuing information. A control information and trade promotion service would be useful (see Chapter VII).

40. This centre might deal with the establishment and operation of systems and procedures for convenient channelling of trade information among the countries in the area. The objective of this service should be the urgent communication of specific domand and supply availability. It might provide assistance in adapting the prosentation of specific products in accordance with the taste and proferences of the market domand in other ChRIFTA countries. The establishment of a teletype communication system among all the countries in the area could be considered as an efficient means of quick exchange of supply and depend information. III. OPPORTUNITIES FOR FST. BLISHING SPECIFIC INDUSTRIAL PROJECTS WITHIN A PROGRAMME OF REGIONAL INDUSTRIALISATION

Introduction

41. This section of the report reviews the prospects and opportunities for the development of four branches of industry studied by the Rission. These are:

> The textile industry The food-processing industry The pulp and paper industry The chemical and petrochemical industry

42. Wherever possible the aim of the Mission has been to identify specific projects which could be implemented within a programme of regional industrialisation. In some cases, e.g. the textile industry, projects are studied sufficiently to allow the Governments of CARIFTA to consider their immediate implementation; in other cases, further elaboration in the form of detailed feasibility study is required.

43. Recommendations for follow-up action to investigate further and/ or implement the projects identified are summarised in Chapter VII of the report.

44: The experience of the Hission suggests that the task of identifying formulating and promoting projects which can be implemented within a programme of regional industrialisation is a difficult and complex one. If the CARIFTA countries are to continue their efforts to identify projects suitable for implementation as regional integration industries, substantial further work covering a much wider range of branches of industry on a continuing basis extending over many years will be required.

45. The Mission therefore recommonds that the Governments of CARNERA countries set up permanent machinery for this purpose in the form of a CARNERA industrial Development Centre. Its functions are described in more detail in Chapter VII, paras If requested, UNIDO would be willing to supply technical assistance to such an institution in the form of consultant services and a group of experts organised as a Special Fund Project.

THE TEXTILE INDUSTRY IN THE CARIFFA REGION

- Prospects and opportunities for future development

THE DEMAND FOR TEXTILES IN THE CARIFTA REGION

46. The textile industry appears to offer considerable scope for replacing imports with local production. Import statistics show that this is one of the largest single categories of imports with a value of roughly BW# 75 million.

47. The demand for textiles products has been estimated by the Mission as follows for the year 1966:

NET IMPORTS. PRODUCTION. AND CONSUMPTION OF TEXTILES

(Ignoring fibres, waste yarn and miscellaneous items) Estimated Estimated Estimated Total. Local Imports Consumption Production mn. 1bs. mn. 168. mn. 1bs. 17.7 3.4 14.3 Moven Cotton Fabrics 0.6 -0.6 **Fents** 7.7 7.7 Noven Synthetic Fabrics 0.7 0.7 Fents 26.7 3.4 23.3

The above items represent two-thirds of the total for all textiles and the remaining third consists of glass, silk, wool, linen, hemp, jute, etc. which the Mission has not considered.

4. These figures suggest that only 13% of the total woven textiles consumed by CARIFTA countries are being produced in the area at present, and only 18% of the total consumption of woven cotton textilos. There is no production of cloth using man-made fibres, such as synthetics and blends.

49. The Mission's superficial market study in the shops and garment factories in CARIFTA show that a bewildering diversity of fabrics is being consumed. For this reason it was not possible to make a detailed market survey. statistics giving widths, qualities, counts, constructions and raw material content, do not exist. 50. The reasons for the wide diversity of fabrics are common to all import-orientated economies:-

(a) Importers and rotailers have a vested interest in providing maximum choice which is very important to a fashion-conscious, dress-loving clientele.

(b) Importers make their greatest profit by elever buying; they are inclined to favour small lots, close-outs and remainders, rather than purchases of classic lines where they have no margin for manoeuvre.

(c) Garment makers, who have to be aggressive individualists to survive, resent anything that conflicts with their freedom of action. the present duty-free regime with restrictions only on types of cloths produced locally is nearly "Paradise" for them.

(d) The advent of synthetics and blends has made it easier for importers to mystify and exploit the public; consequently there is a tendency for a big range of inferior products to be imported in a multiplicity of confusing brands.

51. The sophistication and wide diversity of the present market means that considerable care will have to be taken in selecting those fabrics which could be produced locally. The experience of other developing countries suggests that a local textile industry can be developed, if the production is carefully planned and appropriate policies are followed.

52. Markets such as Nigeria, Kenya, Uganda, Tanzania and Ethiopia were all import-orientated markets ten years ago, buying their cloth from much the same sources as the CARIFTA countries. Today they are all becoming self-sufficient in the production of cotton textiles owing to Government policies which encouraged import substitution, with tariff and/or import quota protoction. In the last decade, a series of large vertical integrated plants have been established in these countries; they are producing a wide range of cotton cloths which will soon account for the greater part of local consumption- there are also several mills planned to produce synthetics and blends.

53. The West Indian per capita consumption of textiles at 11.7 lbs is

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higher than world average of 10.6 lbs, and the individual figure for Tinidad and Tobago is 18.6 lbs which compares with that of Western Europe. This is an indication of future expected demand when incomes rise in the CARIFTA region as a whole.

The market for cotton fabrics

54. The Mission believes that a more detailed study of demand would show that between one third and one half of the CARIFTA market for <u>cotton fabrics</u> could be supplied by a vertically integrated cotton textile mill. It would produce standard cloths to attain maximum production officiency. As a basis for providing some preliminary cost estimates for such a plant¹, production of the following types of cloth has been considered.

Assortment	Drills	3,000,000	yards
	Twills	2,000,000	**
	Shirtings	5,000,000	Ħ
	Shooting	2,500,000	11
	Poplins	2,500,000	₩.
	Prints	10,000,000	
		25,000,000	

Ste A more detailed study of the market is required before detailed plans for such a new textile plant can be made.

So At some later date after this proposed mill had become established, an additional plant or expansion could be considered so that local production catered for a larger share of the total market for cotton fabrics.

The market for tabrics using man-made fibros

W. Imports of woven "synthetic fabrics and blends" in 1966 are estimated at over 8 million 1bs. valued at BW\$ 25 million. Consumption of this type of fabric appears to have been growing more rapidly than cotton fabrics.

See separate report: Preliminary studies of specific projects in the Textile Industry. 56. A detailed market study would be required before the feasibility of constructing a plant to manufacture this type of fabric could be established.

59. Is a basis for providing some preliminary cost estimates of this type of plant, $\frac{1}{1}$ the Mission has considered a plant to manufacture the following types of fabric using 67% <u>polyester</u> and 33% cotton.

Trousering !	Twill	28*	1,000,000	yards
Trousering !	Twill	42"	2,000,000	M
Shirting		36"	2,500,000	**
Poplin		36"	5,000,000	**
Poplin and Prints		45 *	4,500,000	*
			15,000,000	

The market for cotton yarn

60. The proposed integrated textile mill to produce 25 million yards per annum of cotton fabrics and the existing textile mills producing 10 million yards per annum would each produce their own cotton yarn.

61. However, there may exist in the years ahead a demand for cotton yarn for knitting and other small specialized operations such as the production of fancy cloths, terry towelling and speciality wearing.

Ge. To meet this demand a moderate-size cotton yarn-spinning mill might be established. Detailed cost estimates have therefore been prepared for such a mill with a capacity of about 3 million lbs of yarn per annum.

THE EXISTING MAJOR MANUFACTURING UNITS IN THE TEXTILE INDUSTRY IN CARLENA REGION

63. There are two vertical integrated cotton textile mills already, giving direct employment to more than 1,000 workers. One currently produces about 6 million yards annually in Jamaica; the other produces 4 million yards annually in Trinidad. In these mills there is additional

See separate report: Preliminary studies of specific projects in the Textile Industry.

capacity (based on imported printcloth) for at least 4 million yards in Jamaica, and 5.5 million yards in Trinidad.

64. Both mills are energetically managed within the limitations of 1945/1950 technology. Both are well installed and well housed on important areas of their own property. Both have suffered in the past from the smallness of the local market, from their small size, and from vulnerability to dumping. Only recently has each mill received adequate protection in their respective countries in their particular lower end of the cotton textile trade. Both will continue to require protection in the context of CARIFTA.

65. There is a second spinning and weaving mill in Jamaica with a much smaller capacity. This has encountered difficulties for a number of reasons.

POLICIES REQUIRED TO FACILITATE FURTHER DEVELOPMENT OF THE LOCAL

66. An unprotected market with such diverse tastes in fabrics as the CARIFTA market is vulnerable to dumping practices. The experience of the existing textile producers in Trinidad and Jamaica has shown that protection from foreign competition is needed if locally-produced cotton fabrics are to be purchased in preference to imported fabrics.

67. If further development of the textile industry is to benefit * "" from the wider market opportunities created by CARIFTA, new policies will be required.

68. A common policy must be established on protection from foreign competition on at least those types of cotton, synthetic and blend fabrics which are already or are planned to be produced within the CARIFTA market. Further detailed study would be required to establish (a) the most appropriate form for this protection, i.e. tariff protection and/or physical import controls, (b) if reliance is placed on tariff protection, the level at which the common external tariff should be established, and (c) whether it would be effective to protect some types of textile fabrics and not others.

69. The value added by the proposed mills is expected to exceed 50%. There is therefore unlikely to be a need to request special treatment to purmit the fabrics produced to bunufit from free trade within the CARIFTA market.

70. However, it is not clear that all the <u>inputs</u>, which the proposed mills will require, would benefit from free trade within the area. The Basic Materials List should therefore be extended when it can be shown that important inputs other than cotton and cotton yarn can be produced within the area.

POSSIBLE TEXTILE PROJECTS WHICH COULD BE ESTABLISHED AS REGIONAL

71. The Mission concentrated on identifying possible toxtile projects designed to serve all or a major part of the regional CARIFTA market. Therefore it did not consider the possible further development of the garment industry, knitting and other forms of specialised textile industries.

78. Three possible projects are recommended for consideration by the Governments of CARIFTA member countries.

- 1. An integrated cotton textile mill.
- 2. An integrated textile mill using man-made fibres.
- 3. A moderate sized mill to produce cotton yarn.

An integrated cotton textile mill

73. The Mission recommends consideration be given to the establishment of an integrated cotton textile mill capable of producing 25 million yards per annum. Detailed estimates of the capital, operating costs, and employment are given in a separate report - "Preliminary studies of specific projects in the cotton textile industry".

74. The size of the mill (i.e. 25 million yards per annum) has been designed to achieve maximum efficiency and lowest possible costs of production. The equipment recommended is sufficiently versatile to allow for changes in the relative proportions of articles manufactured to accommodate changes which inevitably occur in market domand. Using the equipment proposed the mill would provide employment for over 1,000 people. A further reduction in personnel could be obtained by installing automatic winding, but this has not been recommended in view of social implications, and to reduce capital cost. 75. The mill is designed to supply one third of the present market for outton textiles in GARIFTA. Long runs of standard cloths have been chosen so as to attain maximum production efficiency. The size chosen - 28,000 spindles of spinning, 700 looms and complete finishing, is an ideal scale to achieve maximum economies from the scale of production according to world standards recognised by UNIDO. 1/

76. The cost of machinery and buildings with a small margin for contingencies is estimated at BW\$ 20 million installed and ready to function. It would take 18 months after placing firm orders to construct the mill and have it ready to commence operating. A further 18 months would be required to reach full production on three shifts.

An integrated textile mill using man-made fibres

77. Consideration might also be given to the establishment of an integrated textile mill using men-made fibres. A mill which could produce 15 million yards per annum based on 67% polyester yarn and 33% cotton has been examined by the Mission, and detailed estimates of the capital, operating cost and employment are given in a separate report - "A study on establishing a regional integrated synthetic blend textile industry".

78. The size chosen - 29,600 spindles of spinning, 478 looms, and complete finishing is a reasonable size to achieve maximum economies from the scale of production. The mill would provide employment for 775 workers and 45 staff. The estimated cost is BW\$ 16.5 million.

79. When operating at full capacity on the fibre mix proposed above, the mill would consume 3.4 million lbs of polyester staple fibre. The minimum economic size of a polyester spinning plant based on import chips is roughly 4.75 million lbs per annum (based on 6 tons/day for 360 days annually). Recommendations for studying the feasibility of spinning polyester fibre are therefore made on page .

A moderate-sized mill to produce cotton yara

80. There is no cotton yarn will in CARIFTA at present which can sell yarn to outside customers. The Mission therefore recommends consider-

I "Technological and Economic Aspects of Establishing Textile Industries in Developing Countries". UNIDO, Vienna 1967.

ation be given to establishing a small cott n garn mill designed t supply part of the local demand for knitting yarns and to form a convenient local source of supply of blooched and dyed yorns for speciality weaving, terry towelling, rice bagging, stc. The importance of the mill is that it would facilitate the establishment of more small textile industries in the less-developed territories. Some further details are provided in a separate report -81. "Preliminary studies of specific projects in the textile industry". The brief study shows that a modern mill equipped with new 82. conventional spinning, winding and dyoing machinery to produce about 3.2 million lbs. of good quality carded yarn annually would employ up to 150 persons. The size chosen is the minimum advisable for economic functioning. The cost of machinery and buildings is estimated at BW\$ 4 million. The overall cost per 1b. is estimated at BWS 1.195 per 1b. for an assortment of gruy, white and colours, for the average count of 21.6's. It is believed that the mill's cost price is approximately equal to CIF import price from cheapest international sources.

IMPLICATIONS FOR COTTON GROWING IN THE CARIFTA REGION 83. The two existing large textile companies use about 3 million lbs. per annum $1^{1}/16^{*}$ Strict Low Middling American type cotton which is currently imported from U.S.A., Mexico, Colombia or from other world suppliers according to price, quality and availability, including transport.

84. The only locally-grown cotton suitable for their use is a degenerate Sea Island Cotton from Carriacou. The firm "Texstyle" in Trinidad purchases most of the crop. The possibility of revitalising the Sea Island Cotton growing industry has been investigated by a firm of British consultants, but it cannot be expected to supply more than a small share of local demand.

85. The three projects which have been identified as regional integration textile projects would consume about 13.7 million lbs. of cotton lint as follows:

	1 ¹ /16" Staple	13/8"
	inn. 1bs.	mn. 1bs.
Regional Cotton Textile Mill	8.4	
Regional synthetic and blend mill		1.9
Regional Sales Yarn Mill	3.4	
Total Ordinary Cotton	11.8	
Total Long Staple Cutton		1.9

86. In view of the large quantities involved, the possibility of growing both ordinary and long staple cotton in CARIFTA on a large commercial scale are worth investigating. If these three new textile projects are established, the CARIFTA countries would be able to derive substantial further benefits in terms of development, employment opportunities, and foreign exchange savings by producing all or a major part of the cotton required. It is therefore advisable to investigate at an early date whether American upland type annual cottor, can be grown in CARIFTA by modern methods with high yields per acre in Belize, Guyana and wherever sufficient marginal flat stoneless land can be spared in the islands and whether the operation would be commercially viable if the cotton were sold to CARIFTA customers at prevailing international prices.

THE FOOD-PROCESSING INDUSTRY IN CARDETA

- The prospects and opportunities for future development

THE EXISTING FOOD SUPPLY SITUATION

87. Apart from organised agricultural production for export markets mainly sugar, bananas, and citrus - there is suprisingly little commercial agreigulture in the CARIFTA region geared to supplying domestic food needs, either in the fresh or processed form.

80. To provide a basis for examining opportunities for future development of the food-processing industry in CARIFTA countries, orude... estimates were made of the present annual consumption of food in each CARIFTA country and the source of supply (locally-grown or imported). The estimates are in terms of value rather than volume. The results are shown in Tables I and II. Table I estimates the total food comsumed in each country and the proportion imported. Table II provides dotails of the type of food imported, using the SITE trade classification.¹

Op. These estimates suggest that Jamaica currently produces between two-thirds and three quarters of its domestic food supply. Metornal trade figures appear to indicate that food imports are rising rather rapidly. Little information was available about trends in locel domestic food production, but such information as was obtained tends to show that this production may have been stationary or even have declined in recent years.

A rough estimate of the value of food produced locally for demestic consumption in each CARIFTA country was made in co-operation with local agricultural and statistical officials. Whenever possible these were checked with the local agricultural marketing organisations. Such estimates are necessarily very crude for it is almost impossible to estimate the value of food retailed on the small cultivators plots. Also, because of the system of marketing local food, estimates of the surpluses which come to market may be very wide of the mark.

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Import figures are taken from the latest external trade statistics; where 1967 or 1964 figures have been used, 5% and 10% respectively has been added to bring the value to current prices. In order to convort CIF values to whelesale prices, an average of 25% was added to the totals of each country. This was based on information obtained from authoritative sources, and which shows that from CIF to LDP, costs of imported food must be increased by 12 - 15%; whereas from LDP to wholesale prices a further addition of 9 - 12% must be made.

So For the Eastern Caribbean countries taken as a whole, the tables suggest that 56% of the food supply is imported and only 44% produced locally. This is surprising as the economy of some islands is mainly agriculturel. Figures are not accurate enough to allow any reliable conclusions to be drawn as between one country and another, but the figures suggest that agriculture is the most productive in Barbados and the loast productive in Trinidad, Antigua and St. Kitts.

St. The figures in Table 1 show that total imports of good into the GARIFFA region have been at the level 3NS 300 - 400 million, i.e., roughly 30% - 40% of total imports. The most important categories are:

Coreals	BMB 98 million
Dairy products	3MB 58 million
Hoat	INS 40 million
Pruit and vogetables	BHS 32 million
Fish	ING 28 million
Animal foods fats and oil socds	BM\$ 18 million BM\$ 13 million
Sugar and sugar confectionary	BWS 6 million

Whilst these figures (which include a small element of intra-regional trade) give some idea of the magnitude of the scope for importsubstitution, they are not necessarily an indication of what the domand would be if fresh and processed foods of a high standard and quality were readily available at reasonable prices. However, there is enough evidence to suggest that there is tremendous scope for increasing local production of both fresh and processed food in the Negion,

92. Domestic consumers would then be able to afford and enjoy an adequate and varied supply of fresh food, as well as a variety of local foods processed within the region to the same standards of quality as those of the imported foods to which they are now accustomed.

EXISTING MANUFACTURING UNITS DI THE MOOD PROCESSING INDUSTRY

93. There are at least one hundred manufacturing enterprises established in the food-processing industry in the CARIFTA region. They manufacture quite a wide range of processed foods. Most of the existing plants are located in Jamaica and Trinidad and Tobago. Typically these manufacturing units are of a small-scale and protected by import tariffs or controls. They have been designed to satisfy national demand and not the demand of the CARIFTA market as a whole.

The Mission visited some of the existing enterprises in this industry in all the CARIFTA member countries. If they all had one problem in common it was that they could not produce sufficient and assured supplies of raw materials of satisfactory quality and at prices which will make these industries viable. Even in Jamaica, where the for 4-processing industry produces the most diverse range of products and is technologically far in advance of the other CARIFTA countries, the problem was exactly the same.

This situation constitutes a serious handleap to the further development of the food-processing industry in the CARIFTA region. Nest of the existing enterprises rely on numerous small cultivators and middlemen to produce the food they require for processing. Governments have introduced a variaty of measures to promote a larger, more reliable and higher quality of food supplies, but in most cases these have had only marginal regults.

96. The Mission believes that only the introduction of the growing of some food for processing on a large commercial scale, together with far-reaching reforms in the organisation of smallholder or peasant

97. In some CARIFTA countries a start has been made on large-scale commercial food production for private profit. In Trinidad a pilot settlement scheme, the Groun Lands Development Project, has been started with support from the World Bank. Here, dairy and pig farmers have been settled and assisted, but it is significant that in either case private enterprise factories provide outlets for all the production. Another scheme which looks successful is one sponsored by a tobacco company; the Tobacco Company is not only taking all the output but is also providing the necessary field service for the growers.

96. The Mission found that in most of the countries visited the approach to the establishment of food processing industries is rather unorthodox. The government decides "in principle" to build a citrus packing plant, or a milk condensery, etc. When questioned about the availability of suitable raw material supplies, the answer is either that "surplus" already exists or that "we can grow it". When questioned about the market for the products, the reply is invariably "we can export". Food-processing plants conceived in this way are not only likely to waste capital which could be better employed in other ways, but their operation may also have to be heavily subsidised. Where the products are traded within the region such subsidies would be against the spirit of the CARIFTA agreement.

99. If projects in the food-processing industry are to be developed on a sound basis in future, more detailed and realistic planning will be required and this will have to take account of the existence of the wider market created by CARIFTA. The Mission believes this new approach will affect the planning of specific projects already under consideration at the national level in the field of milk, meat and fish processing.

III. POSSIBLE FOOD-PROCESSING PROJECTS WHICH COULD BE ESTABLISHED AS REGIONAL DITEGRATION DIDUSTRIES

100. The Mission concentrated its study on those branches of the food industry for which planned further development on a regional basis second desirable from the points of view of improving the domestic food supply and assisting import substitution.

101. The import figures quoted in paragraph 5 suggests that opportunities for establishing new projects exist in the following branches of the food processing industry. Flour and rice milling, dairy products, meat processing, fruit and vegetables, fish-processing, animal feeds, oils and fats, sugar refining. In most ecces, further study is needed to establish in detail the feasibility of specific projects. The Mission's recommendations (page) therefore include suggestions for further UNIDO assistance in eleborating such projects.

108. The order of priority and range of projects to be developed will depend on these studies, some major industrial policy decisions and the scope for and cost of growing the good raw materials locally. In particular, the CARIFTA countries will have to decide what level of tariff protection each branch of the food-processing industry is to receive.

Diiry products

103. Imports of dairy products cost about BN\$ 60 million. One reason for the high cost of imports is the failure to develop supplies of fresh milk and as a result heavy reliance on imported raw materials. The milk processing factory established in Jamaica 30 years ago still relies on imports for two-thirds of its raw material; new plant established recently in Barbados and Trinidad also rely partly on imported raw materials.

104. To support the tourist industry and provide a better food diet for the Caribbean people, supplies of fresh milk should be available in all the CARIFTA countries rather than only in Jamaica, as is the case at present.

105. There are two possible approaches to the further development of milk-processing. One method would be to establish a very large dairy herd (several thousand estile) integrated to an up to date dairy plant which can produce enough milk to supply all or most of the CARIFTA market; this would allow production of butter, choose, formented products, etc. to be carried out in a large-scale, modern and commercially viable plant. With such a plant it is ensure to tailor production to the pattern of local demand and to reduce reliance on imported milk powder to a minimum.

106. The other possibility is to opread this industry over several locations. The production of milk could be prometed on a national basic to satisfy the large potential demand for fresh pasteurized milk, if a large-scale operation proves to be technically unsuitable or rejected for other reasons. Small-scale deirying would fit in well with existing social patterns and the local production of pasteurised milk would benefit from the natural protection of high transport costs in the area.

Meat processing

W. Imports of most and most products have reached GWS 40 million. Opportunities for an integrated meat-processing industry exist for both beer and pork products. However, there appears to be a danger in the case of pork products that this opportunity will be lost if every government decides to build its own pork packing plant, as the Mission was told in many of the countries it visited.

Mo. The pork butchering industry includes production of hame, shouldors, bacon and loin ohops (bot dogs, boiled (canned) ham, boloney, salamis, smoked products and pickled pork). If the smaller countries attempt to produce the whole range of these products on a small scale, they will find it unconomic. A large new factory has just started operation in Trinidad; there is also an eld plant in Jamaica. It might be worth investigating whether those plants could aupply enough trimmings to the other CARIFTA countries to manufacture, in a properly designed industrial operation, such porkproducts as hot dogs. A small plant of this type is now boing set up in Bridgetown, Burbados.

109. As for the dairy industry, it would be advisable to make a thorough survey as a basis for planning the further development of the meat-processing industry and deciding to what extent production should be controlised in large-scale and efficient units. Such a survey might take necount of the special interast of the less-developed territories; it would cover beef, poultry and other meat products, as well as pork products. - 31 -

Animal Foodstuffs

110. Any feasibility study of most processing would be incomplete without a survey of the position in regard to <u>chimel feeds</u>. These are basic to any expension of animal husbandry. Already the imports of enimal feeds have reached WI\$ 18 mi. and prices are maintained at partificially high levels by the moreantile structure of the firms which import them.

111. One enterprise, which would produce enough animal feedstuffs to satisfy the needs of the area, would be a useful addition to the economy of the CARIFTA countries. This plant should purchase the whole raw material contrally (maiz), fish meal, vitamins, enzymes, soys flour, eil capes, etc.) to have the possibility of obtaining offers at relevant world prices. At the same time, it should be technologically so far advanced that all pro-mixes and all concentrates could be made in the plant itself and not purchased, as is now the case, from other companies of the United States, England or Canada. A detailed study of such a project is recommended.

Vegotable oils and fats

112. Imports of vegetable oils, oil sceds, and fate already exceed BWS 13 million. There is some local production in Jamaica and Trinidad, the natural character of the existing industry is reflected in the oils and fate agreement. The further development of the industry could provide adequate quantities of vegetable protein for the production of animal feedstuffs, as well as supplying an expanding consumer demand.

113. The production of some vegetable oils and fats should be integrated with the supply of raw materials - ic.e. the vegetable oil industry should collect the raw material grown by the small farmers or grow it independently in big industrial plantations. The expanding needs of the CARIFTA countries for vegetable fats (coconut oil, occor butter, hardened vegetable fats by hydrogenation, and a great number of refined vegetable salad oils) can best be met if the industry will exclusively take ever the task of cultivating or buying direct its raw material requirements. 114. The Mission believes that a viable project could be drawn up which takes into account the need to streamline and reconstruct the present industry, the production of raw materials, and the marketing of both the fats and the oil cakes. Here again further detailed study is recommended.

Milling of flour and other coreals

115. Imports of flour and coreals have reached a level of about BWS 100 million. There is a flour mill in Trinidad and a rice mill in Jamaica.

116. The framework of the CARIFTA agreement provides an opportunity for developing an integrated programme for the import of grains for common storage and the establishment of additional more modern mills to produce flour and special coreals. There are considerable advantages in terms of yield and efficiency in establishing large size production units in this branch of the food-processing industry. The price of this staple food appears to be higher than necessary in the CARIFTA countries at the present time.

.Fruit and Vogetables

127. At prosent, industrial processing of fruits and vegetables is mainly of citrus fruit for export. The Mission considers that there is a large potential market for processed fruit and vegetables in the CARIFTA region, as well as for overseas export. To realise these possibilities it would be advisable to co-ordinate the production of fruits and vegetables by agreement among the member countries. Further studies are required to identify specific projects in the field of canning, frozen foods and other forms of ready-prepared foods.

Fish Procussing

116. The imports of fish and fish products into the CARIFTA region has already reached WI\$ 30 mi. This includes dry salt-fish. Jamaica accounts for over half the import bill.

Taking the Eastern Caribbean countries of CARIFTA as a unit, the operations of local fishermen are limited to inshore fishing, for which the maximum annual potential of the fishing grounds is estimated by the FAO Fisherics Development Project at 7,000 tons. This is only one-fifth of the potential needs of the population of the Eastern Caribbean region.

The establishment of a properly organised and adequately capitalised offshore fishing flect is long overdue. Such an industry would necessarily be regional, and could thus be established under conditions which will ensure to all memober countries on adequate supply and distribution of fresh figh.

Apart from fishing boats, the industry would provide for its own use landing, docking and repair bases; cold storage facilities; and possibly a fleet of refrigerated trucks for distribution. If national marketing organisations were to be suitably reorganised, they might in some cases be expable of taking over the distribution.

119. The Hission discussed this potential project with officials of the FAO Fisherics Development Project. On the basis of existing information, the Hission believes that an established and experienced fisherics group might be interested in developing such a venture, provided its representatives could discuss and negotiate with one single development agency for the whole region. As a first step more information should be collected, so that a feasibility study to attract potential investors can be prepared.

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TARLE IV (page 35)

THE PULP AND PAPER INDUSTRY IN THE CARIFTA REGION

Prospects and Possibilities for future development Present situation

120. The only manufacturing units in this industry are paper and cardboard converting fractories making paper bags, boxes and other products. The existing corrugated box factories operate at low level of utilization of installed capacity.

Prosent policies

121. At present, the import duty concessions offered to Pioneer and export-oriented industries discourage use of local packaging materials in many of the CARIFTA countries. Other paper products are imported at international prices. Import duties are listed in the detailed report on this industry.

Domand

122. The main products imported are newsprint, kraft wrapping paper, writing papers, kraft and liner board and corrugated board.

Technology

123. In this industry economies of large-scale production are very significant. Under conditions ruling in Latin America costs may halve as production increases from 50 tons/day to 300 tons/day. The manufacture of most products is best carried out in integrated plants which manufacture pulp.

Possible projects

124. The most promising project in the forseeable future appears to be one to manufacture corrugated cardboard. This could use local waste paper as well as imported pulp. Demend for packaging of bananas is expected to increase to 13,000 tons by 1975; packaging needs for other products require detailed study.

methor investigations succested

125. In both Bolisc and Guyana, the FAO is investigating the suitability of local timber resources of pulp and paper production; an conomic-size plant would have to be export-oriented and detailed market and technical studies would be required. The use of bagasse as a row material to make certain grades of paper has been invostigated by UNIDO in the Caribbean and other parts of the world. The next stop in CaRPTE would be to investigate the local demand up to 1975 for writing paper,

THE CHENICAL MADUETRY IN THE CARINE ABOIDS

Prospects and opportunities for future development

THE DELAND FOR MERICARS DE THE CARIFT. JECION

126. The chemical industry is defined to include basic chemicals, petrochemicals, fortilisers, as well as fine chemicals, pharmaceuticals, soap, cosmetics and teileteries. Imports statistics available at present do not classify chemical imports in sufficient detail to make a detailed study of demand within the ConIFT region. There is also little information available on local production of these products.

127. A rough estimate suggests that consumption of these products is roughly US\$ 25 per capita in Trinidad and Tobacc, a level comparable with the average observed in Latin America in 1967. In Guyana it is about US\$ 20 per capita, in Larbadon US\$ 10 per capita and in Jamaica around US\$ 17 per capita.

EXISTING HUNUFACTURING UNITS IN THE CHENNEL L DOUSTRY IN THE CARIFTA JUGION

128. At present the demand for basic chemicals is at a low level because the CARIFTA market is small and because industrial development has so far been limited chickly to consumer goods of which only detergents, paints, cosmetics, phareaccuticals and cleaning products require basic chemicals in any volume. The most important manufacturing establishments, therefore, produce petrochemicals and fortilisers chiefly for the export market.

129. Jamaica has made a start on the production of some basic chemicals. There is a substantial domand for caustic sode for use in the alumina smelting process, and the focsibility of establishing a harde plant is examined in the detailed report on this industry. Some alumina sulphate is produced, and production is likely to increase when construction of a new sulphuric acid plant is completed. Otherwise production consists chiefly soap, detergents, paints are pharmaceuticals. 130. Trinidad expected petrock micels and fertiliters worth US\$ 40 mil. in 1968 — The existing petrochemical complex can produced aromatic hydrocarbone (obsche, teluche, grienes), propylent etramers (noncnes, dodecenes, disiso (utylenes), mapthenes (cyclohexino), nepthenic acids, normal paraffine $(\mathcal{J}_{10}, \mathcal{O}_{1'})$ to onic, urea, assonice culphate and sulphur.

131. Production for the local market in Trinidal convists of detorgents, scape, paints, compounding resticides; nort of the pharmaceutical and cosmetic products consumed locally are imported at present.

132. In Guyana paints, soap and detergents are benufactured on a shall scale, supplying about helf the local depend. Pharmaceutical products are imported. In Barbalos local chemical plents include scap production and a small glycorine recovery operation; a limited range of pharmaceutical products are processed and packed locally.

POLICIES REQUIRED TO F CILIT. TH FURTUR DEVELOPMENT OF THE CLEHICAL INDUSTRY IN CARIFIA REGION

133. The plants established so far have been gered to the local market. Despite its small size, there exist not only several firms within the GARIFTA area manufacturing the same or similar products, but in some cases several small-clice plants exist in one particular country. Although this results in competition between firms, it has the disadvantage that the scale of production of each firm is very small and usually well below the minimum level desirable for an economicvized operation.

134. If Auplication of production facilities within the CARIFTA area and the high level of tariff protection which this requires are to be avoided in future, there will have to be some deliberate agreement at the regional level for the programming of the manufacture of chemical products. It will be easier to reach such an agreement at this stage rather than at a later stage, when pressures from the much larger number of manufactures then involved would make it politically and institutionally note difficult.

POSSIBLE GERALD PROJ CTV. MICH COULD DE EST DEL MED . S REGIONAL INTEGRATION LE CUST MES

135 The demand for caustic role for the alumina saulting facilities in Guyana as well as Justice and the small d mand in other member countries suggests that this industry could be established as a Regional Integration industry. To provide the essential ran nuterial for this industry salt and other pinor products, the production of solar solt from seawater should be considered.

136. The production of sub-huric anid could also be considered a Regional Intermation industry.

137. Chlorine is produced to a by-ord bet of caustic code production. It may be worth investigating the possibility of using it to produce viayl chloride memorar. The other sain charactel ingredient would be othylend, and this might eventually be supplied by a local plant which eracks nepths to produce ethylend, propylane and betadder. However, this industry would be an expert-priorited industry as local demand would be small even if the memory were converted into PVC for the plastic industry.

138. There would appear to be scope for further processing of some of the intermediate patrochemical products produced in Trinidad and Tobage at present. Petrochemicals of such higher value might be manufactured if suitable expart markets can be found.

139. It would be worth re-investigating the masked for furfural produced from bagasse.¹ Whe feasibility of production was examined by a UNIDO expert in 1967 and since then prices have risen considerably in world markets.

140. The import figures suggests that it would be worth making a dotailed study of the demand and present sources of supply for the following product entegeries.

- 1. Phormacoutical propertions
- 2. Soap, cosmotics and toilctories.
- 3. Pusticides.

¹ UNIDO has been requested by the Toverment of Trinified and Tobay to make such a study.

Such an assessment would consider (a) whether there were opportunities for establishing new local manufacturing facilities, and (b) if this was not possible, whether there were economies to be realised by importing certain widely used items in bulk for repacking and subsequent re-distribution within the CARETE area.

7

IV. THE SCOPE FOR INDUSTRIAL DEVELOPHENT IN THE LESS DEVELOPED TERRITORIES

141. The heads of Governments in the CallFTM countries have agreed to give special attention to the prospects for further industrialisation in those territories defined as "loss developed". This chapter considers the scope for promoting the establichent of new discussional-could industrial projects in these countries. The scope for large-scale new industrial projects in these countries. The scope for large-scale in Chapter III of that report. The policy measures required to promote the catablishment of some of these large scales in a 1 projects in the less developed territories are considered in Chapter V.

Infrastructure - the first priority

142. Although them territories have already catablished some small industries mainly of the assembly type, the mission has found that in most cases the basic infrastructure - electricity supply, water, roads, port facilities, etc. - necessary for the creation of a significant industrial sector does not exist. These deficiencies are a serious disincentive to the establishment of new industries. Nore generous fiscal incentives cannot compensate for these disadvantages. Until an adequate infrastructure is developed, industrial projects in these territories will of necessity be confined to the simpler types of industrial activity.

The Stope for Establishing action for lo Industries

143. What types of Netion scale industry can these territories expect to develop **P**. Nore adequate import trade statistics for these territories are needed to identify their own market requirements for specific commodities. However, the Mission can indicate a general strategy for developing the industrial sector in the smaller territories. This would include:

A. Creation of industrice to satisfy the depend generated by other sectors of the company, (i.e. tourism, construction, agriculture);

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- B. Croating new industries based on local resources;
- C. Creation of new industries to satisfy the local demand for consumer goods.
- D. Creation of envillary small scale industries to supply parts or components to industries established in the larger territories.

A. Industries to satisfy the domand, generated by other sectors of the seconomy.

Tourism

144. Approximately 10,000 additional hotel rooms for tourist accommodation are expected to be constructed in the near future. Most of the furnishings could be produced locally. Demand for standardised type furniture for homes and offices is also increasing. The main requirement at this time is for expert design, marketing guidance and a training programme instituted to develop the skills of local oraftsmen. With this help a local furniture industry could be developed.

145. The hendioraft industry could be developed parallel to the expansion of tourism. This is a labour intensive industry requiring a minimum of equipment, and hence ideally suited to the less developed and smaller islands. However, it too needs guidance and encouragement. It suffers from lack of adequate financing support at prosent and a special institution to assist the small entrepreneurs and artisans needs to be established. More training and formation of local designers is also needed to widen the range of products.

146. Cortain other small plants could be encouraged as a result of the expansion of the hotel industry such as manufactures of household furnishings (matresses, etc.) Also a number of profitable service activities could be initiated to eater to the tourist needs such as yacht repairing.

Construction

147. The construction industry is a flourishing one in all CARIFTA countries. Some small scale industries can be established to provide certain materials such as door frames, windows and other prefabricated items, to standard dimensions. In fact if this next stop is not taken soon in some of these islands, the housing construction programme will not proceed as rapidly as is hoped.

Agriculture

148. There may be scope for manufacturing a range of simple agricultural implements. The main tool of cultivation is still the machete. There is also scope for developing the services required by the. agricultural sector. These services could be linked with automotive repairs and hardware supplies.

La Industries based on local resources

149. In Dominica, there is remarkable opportunity for the initiation of an integrated lumber industry based mainly on Gemmier (70% of total timber supplies. The availability of abundant supplies of lumber makes boat building a promising industry in this region. Here a detailed study would be desirable.

150. Traditionally, the islands have been experters of raw materials which are processed abroad, and importers of the processed product. A prime example is sugar and sugar confectionary. The scope for local production is worth investigating. In this category too, would fall the whole range of ancillary industries based on edible oils.

G. Mallesonle industries to satisfy local consumers' demand

151. Bearing in mind transport costs in the area and other difforentials such as wage levels, there is scope for establishing more small and medium scale industries to satisfy local consumers' domand. In the clothing industry, for example, there is need for standardising clothing like school uniforms in every island.

152. It would be worth investigating the possibility of establishing a type recorpsing plant on some islands. Consideration could also be given to soft drink plants which by their nature are small units given natural protection by high transport costs.

15]. In Dominica, there is a bakery equipped with a large Baker Parkins machine for biscuit production. Through lack of capital and exportise, the bekery is working at very low efficiency. Given some toohnical assistance, the bakery could satisfy a large proportion of the local domand in the Eastern Caribbean. If requested, UNIDO could recruit a short-term edvisor. 154. Even if regional integration industries are established to produce cotten and synthetic fabrics on a large scale, there will still be room for ancillary small and medium scale textile industries such as knitting, warp knitting, towel-making and speciality weaving. These industries could use local supplies of spun cotton yarn.

155. Small plants to pastourise fresh milk could be considered in all the less-developed territories; this must be done simultaneously with development of the local supply of fresh milk and the promotion of a market for the product. It would be desirable to use any seasonal surpluses to menufacture white cheese and yoghourt for local consumption, and to discourage imports of preserved milk - condensed, evaporated or powdered.

156. Small plants for the manufacturing of pork products from trimmings could be established in several islands. The trimmings could be supplied by the existing the factories in Japaica and Trinidad, and these materials supplemented by local pig production. One such plant is now being set up in Bridgetown, Barbados. There are other opportunities in the food processing industry. The Eastern Garibbean region imports a variety of canned fruits and nectars which could be replaced at least in part by juices and fruit segments produced locally. There is already in every island some knowledge however rudimentary, of propering such products and bottling them.

D. Groation of ancillary small scale industries

157. The more advanced level of industrial development in the larger territories could be used to advantage to promote the establishment of small-seals industries in the less developed territories. A case in point is the assembly of automobiles in Trinidad. At present the parts are nearly all imported ready assembled. Simple components which could be manufactured in the smaller islands include exhaust mufflers, tail pipes, air cleaners, oil filters, spring U belts, spring shackle pins, spring elips, spring bushes etc., and this might even be extended to take in some of the electrical components, instruments and lighting units. These industries would not only feed components to the mejor assembly plant, but also aupply the replacement merket.

E. General conclusions

158. The successful establishment of the industries mentioned above and other idea when we irresurther dury to determine factors such as optimum size of plant, costing, location etc.

159. In order to promote more rapid development of small and mediumscale industries in the less-developed territories, the Mission recommends:

- (a) that these territories seek assistance in designing
 appropriate infrastruction facilities; financial assistance
 may be available from the Caribbean Development Bank,
- (b) that the territorics consider the need for one or more expert advisors on small-scale industry development;
 such advisors could be recruited by UNIDOs and included in the group of international experts attached to the proposed
 CARIFTA Industrial Development Centres

V. POLICIES AND MEASURES REQUIRED TO IMPLEMENT A PROGRAMME OF REGIONAL INDUSTRIALISATION IN THE CARIFTA COUNTRIES

160. The implementation of a programme of regional industrialisation will require some rethinking of the policies formulated at the national level to promote, guide and control industrial development to place them in a regional context. The chapter deals first with the set of policies required to hand, a regional programme of industrialisation. The machinery required to implement these policy measures is discussed in the next chapter of the report.

1. Policies discussed in the CARIFTA agreement

(a) Tariff and trade policies

161. The basic policy element of the CARIFTA Agreement is that the member countries will remove trade barriers (tariffs and quantitative restrictions) among themselves, but keep their own tariff levels and quantitative restrictions against countries outside the Area.

162. A number of provisions were included to ensure fair trade practices under the Agreement. Government subsidies to, or direct tax concessions on, exports to other CARIFTA countries are not permitted; the granting of drawback on import duties paid on imported goods included in finished goods subsequently exported to another CARIFTA country is prohibited.

163. The text of the Agreement gives the governing body of CARIFTA the power to make recommendations on the harmonization of fiscal incentives. In Resolution 11 adopted by the Fourth Heads of Government Conference on Regional Integration, the CARIFTA Governments asked the ECLA Secretariat to undertake a study on the harmonisation of incentives. If In the meantime, Article 23(1) of the Agreement prohibits any member country from introducing more generous incentives than the most generous already obtaining in any one of the member countries.

(b) <u>Incentive policies</u>

164. The Mission examined the incentive policies of member countries; a comparative analysis is attached as Annex A to the report. The

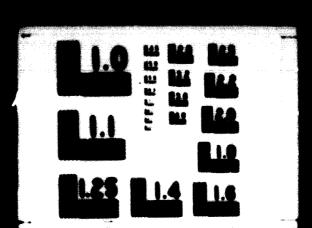
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^{1/} This study was under way in ECLA office for the Caribbean at the time of writing this report.

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analysis shows that there is a wide disparity in the type and generosity of incentives offered to investors by the member countries of CARIFTA. The Mission believes that some harmonisation of these incentives is essential, and that their future application should take account of all the policy measures which affect the commercial profitability of a new enterprise, i.e. tariff protection, subsidised financing, subsidised land and factory buildings and labour training greats as well as tax incentives and import duty concessions. The legitimate needs of the less developed territories to establish new industries should be taken into account. In this connection, the removal of certain disincentives (e.g. lack of adequate infrastructure) will be equally important. In addition to more generous incentives, ether policy measures (e.g. licensing of new industrial projects) may be required to ensure this policy objective is realized.

factores to contract A domak A program of serioral

Second integration reads on follows:-

The principle should be accepted that certain industries and require for their economic operation the whole or a large part of the entire regional market protected by a common external terisf or other mutable instrument. The location of such infestrics and the criteria to be applied in respect thereof, as well as the implementation of the principle accepted above, should be the subject of inmediate study - such study to have special regard to the situation of the relatively loss-developed resolution.⁶

We Furthermore Desolution 7 requested the IDLA Secretariat to Mentify industries which should be loosted in the Less developed territories and to device special measures for securing the establishment of such industries in these countries.

(a) Infinition of Parional Internation Industries

167. For the purposes of this report, industries which require the whole or a large part of the entire regional market for their economic operation have been called "<u>Regional Integration Industries</u>". If this



type of industrial project is to be established in the CARIFTA region, new policy decisions on the part of the CARIFTA Governments will be required. In particular the term "Regional Integration" industry will have to be more carefully defined and rules governing their establishment created.

168. The sponsors of many if not all such projects can be expected to ask for (a) some assurance that other producers of the product within the area will not be granted favourable treatment for a certain minimum period of years, and (b) that they will be granted effective protection from foreign competition in all the CARIFTA member countries. Therefore new measures on licensing industrial projects and the unification of external tariffs on products produced by these industries will be required.

(b) Manana of non industrial products

169. At present none of the CARIFTA countries has a system for licensing the establishment of new industries; Government approval is only required if the enterprise wishes to benefit from one of the different incentive acts. The present system does not provide sufficient inducement and protection to potential sponsors of a Regional Integration Industry. There is no assurance that a second enterprise manufacturing the same product could be established, and even benefit from the incentives offered by a different country within the CARIFTA area,

170. The Mission recognises that the establishment and implementation of policy on licensing new industrial establishments is one of the most difficult and complex issues which the Council of CAMIFFA will have to work out in the near future. If it is agreed that permanent licensing machinery is needed, the range of projects to be covered (expansions schemes as well as new projects) will have to be defined. The definition of Regional Integration industries provided above does not exclude the issuing of a licence for a product which is already produced on a small scale in the CARIFFA region: it could include existing national plants which have sufficient excess capacity to supply the market in other CARIFFA countries; it could also include existing plants who wish to expand their capacity to supply the market in other CARIFFA countries. 171. The Mission therefore recommends that the CARIFTA Secretariat (a) make a detailed survey of all major existing industrial establishments, and (b) recommend to the Council of Ministers criteria on which industries or industrial products can be classified as Regional Integration industries. If requested UNIDO could recruit an Industrial Policy Adviser to assist the Secretariat in this work and the submentation industries of an appropriate regional licensing system.

(c) Liconaine and the location of new industrial projects

172. The Mission recognizes that the choice of location for new projects " established as Regional Integration industries is ultimately a political decision which only the member countries of CARLPTA can decide. Movever, it believes that these decisions should be based on as much technical information as possible, in particular on estimates of the total cost of production and distribution to acting the domand within the CARLPTA Region. Asson information will need to be based on a fatelled study of each projects.

173. The Riemion recommends that the GARIFTA Secretariat (a) make a detailed survey of the locational distribution of industrial projects optibilizing in the area at present; and (b) suggest ours general evitorial to the Council of Ministers which can be used to decide whether or not a new plant established as a Regional Integration industry can be located in one of the levendeveloped territories.

274. The lisensing system proposed above will not by itself secare the market for a project established as a Regional Integration infustry. In most cause the industry will also need some form of protection from foreign computition. The Minston therefore recommends

In addition to the linkage offects with existing industries, it might be possible to agree on some general criteria - for example, that an industry should be located in the leas-developed territories if the difference in the total cost of production and distribution to the whole GARIFTA market is no more than, say, 10% higher than it would be in another location closer to one of the major population centres.

that the CARIFTA Council establish a permanent committee of senior Government officials to establish the initial level and keep under <u>continuous review</u> over the years the CARIFTA common external tariffs granted to Regional Integration industries and other industries. To facilitate the committee's work, the CARIFTA Secretariat should (a) make a review of the existing tariff structure of each member state, (b) encourage each member state to adapt their customs laws to the same tariff nomenclature, and (c) suggest criteria¹ on which the uniform level of external tariff for industrial projects, component parts and raw materials can be established. If requested UNIDO could recruit a second Industrial Policy Adviser to assist the CARIFTA Secretariat with this work, the subsequent design of an appropriate regional tariff structure, and the continuing review which it requires.

(a) Industrial Clauselor

175. Apart from the industrial development bank in Jamaion, and looms extended by the industrial development corporations in Development Cuyana and Trimidad and Tobago, there are no institutions to utich industry can turn for equity and medium- and long-term loan capital. The proposed Caribbean Development Bank will prosumably be willing to invest in the larger industrial projects, but this in no way reduces the need for some additional institutions specialising in financing new industrial enterprises and the expansion or moderaisation of existing plants.

176. The existing institutions have been mainly interested in helping the pioneer or larger industries. The small industries appear to have derived very limited benefit from their facilities. Purther additional machinery therefore needs to be created in order to cater to the special needs of very small entrepreneurs, craftenen, artisane, etc. who do not have access to the conversial banks and other financis:

The criteria used and the level of tariff protection granted will determine the efficiency of new industrial units established in the CARIFTA region and the range of industries which can be established. If, for example, industry requires tariff protection of 50%, the cost of the locally made products will be up to 50% higher than the cost of imports and the standard of living of consumers as well as the possibility of experting items using locally-made materials will suffer accordingly.

institutions. These facilities could be established either in the headquarters of the central monetary authorities or as a section of the existing agricultural credit banks.

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(f) Company Law

177. To provide an opportunity for wider ownership of industrial enterprises, the laws relating to the registration and operation of companies should be revised and brought up to date and made uniform throughout the area. The new laws should stipulate that a minimum proportion of the capital must be owned by nationals of CARIFTA countries, leaving the Governmonts free to insist on a higher proportion on a case by case basis when new ventures are established in co-operation with foreign invostors. New regional integrated industries should be formed as public companies under the law of the country in which they are established. Shares should be offered for subscription to nationals of all CARIFTA countries on an equal basis. Unmembershed shares should be taken up by the governments or governsent sponsored financial institutions and subsequently sold to nationals. To facilitat, regional ownership, double tamation agreements or other spocial arrangements will need to be negotiated.

.(c) Entertal laveningent

178. A common policy in regard to foreign investment within the area should be worked out and agreed upon as soon as possible. Such a policy should seek to ensure:

- In this regard, encouragement may be given to the establishment of companies with a misture of foreign and local capital.
- ii. That foreign capital brings in technical management and adequate marketing experience which are searce in the CARIFTA region.
- iii. That foreign companies share the management of enterprises with CARIFTA nationals and undertake to give adequate training to local personnel at all levels.

- iv. That foreign investors give local investors the opportunity to acquire capital stock.
 - v. That the enterprise is free and encouraged to sell CARIFTA products in expert markets.

179. In order to ensure maximum usefulness, the encouragement of foreign capital should be undertaken within the framework of a clearly formulated policy which: (a) takes account of the capacity of the national scenewy to absorb foreign investment; and (b) the need to mobilize foreign resources to supplement demestic financial resources. The study on foreign investment now being conducted by the University of the West Indies may usefully examine these comsiderations in order to assist CARIFTA countries in formulating an effective policy.

(b) Industrial standards

180. The development of many branches of industry as well as services to the unsers of the products produced will be facilitated if the GIRIFTA countries agree to implement a policy of standardising product specifications and designs. If requested, UNIDO will recruit a short-term expert to advise the Council of Ministers on an appropriate policy and the machinery required to implement it.

VI. THE INSTITUTIONAL FRAMEWORK REQUIRED TO IMPLEMENT <u>A PROGRAMME OF INDUSTRIALIZATION IN THE</u> <u>CARIFTA COUNTRIES</u>

181. At this early stage, the institutional framework to support the regional economic co-operation between CARIFTA countries is still being evolved. The Mission therefore considered what type of regional machinery would be needed to implement the industrial projects and policies which it has recommended in earlier chapters.

1. A CARIDYA Industrial Development Centre

152. In chapter III the Mission noted that if the GARIFTA countries are to continue their efforts to identify industrial projects suitable for implementation as Regional Integration industries, a continuing programme of work would have to be evolved and this might best be performed by the establishing of a GARIFTA industrial Development Centre. The Mission believes that this proposed institution could play a vital and important role in realizing the benefits of regional co-operation in the field of industrial development.

103. One of the important aims of this institution would be to identify and premote industrial projects which can be located in the less-developed territories. These member countries do not have the fincacial resources or membery to develop and premote their our programmes of industrial development. On the other hand Berbados, Guyana, Jannica, Trinidad and Tobage have each most an industrial development corporation for this purpose in the part.

ille the of the main functions of the proposed centre would be to make a continuing series of studies of various branches of industry <u>on a Facional</u> <u>hence</u> with a view to proparing proliminary studies or detailed feasibility studies of specific projects. At present the four industrial development corporations mationed above are only partially equipped and directed to easy out this type of work.

185. Another function would be to promote the establishment of more experioriented industries to provide more employment for the areasymmeter utilised labour forces. There is a need (a) to identify more new products with sound expert prospects and (b) to help provide interested enterprises with guidance and skilling training which industrial products requires International Experts could help the Centre fulfill these functions. 186. Another function could be to promote intra-regional trade in industrial products. At present such trade accounts for less than 6% of the total trade of CARIFTA countries because of (n) local manufacturers' ignorance of sales possibilities in other CARIFTA countries, (b) inadequate protection from foreign competition in some countries, (c) long-established trade links with suppliors outside CARIFTA reinforced by heavy local advertising by foreign firms, (d) inadequate intra-regional transport and communications facilities. The CARIFTA agreement has established conditions in which intraregional trade can develop, but a central information and promotion service is required to sue that trade develops further. In addition the design and quality of products manufactured in one CARIFTA country needs to be adapted to the tastes of consumers in other countries. International experts could help the Centre fulfill these functions.

187. The functions of the proposed CARIFTA Industrial Development Centre might be:

- a) to make surveys on a regional basis of particular branches of industry with the aim of identifying specific projects suitable for implementation as Regional Integration industries or as national projects or as export-oriented projects;
- b) to make more detailed market surveys and feasibility studies of projects identified in this way;
- c) when requested, to advise the Council of Hinisters and CARIFTA Secretariat on the technical and economic considerations involved in the choice of location for new industrial projects;
- c) to promote the interest of foreign investors and advise on sources of enternal financing in selected industrial projector
- •) to advise on the appropriate foreign technical processes to be used for specific projects and on the terms and conditions for the use of foreign technical "know-how";
- f) to advise the less-developed territories on the development of an appropriate infrastructure, industrial areas and industrial estates;
- g) to provide assistance to the less developed territories on the establishment and management of small industries.

h) to identify industries with sound export market prospects, promote their establishment, and advise on export marketing;

i) to provide a control information and trade promotion cervice to increase intra-rogional trade within CARIFTA.

188. The Mission found that there were a number of opinions on a suitable location for such a Centre. Some falt it should comporate closely with the proposed Caribbean Development Bank, others falt its work might be more closely related to that of the CARIFTA Secretariat; another view was that it need not be directly linked to either of these institutions. It was, however, agreed that the staff of the Centre should be drawn from nationals of the CARIFTA countries, assisted by international experts.

109. If the idea is accepted in principle, the dission recommends that the Council of Ministers appeint a small group (no more than six persons) of center deveryment officials and industrialists from the GARDYN: countries to be responsible for all the proparatory work required for the formation of this segmentation. If requested, UNIDD would send an exploratory mission to equally with this countities and drew up terms of reference for a centisting programs of UNEDD Assistance, perhaps as a Special Fund Project.

B. On Many A Press and a

190. Chapter Y identified important policy questions on which substantial further study was required and suggested that this should be part of the functions of a strongthened CARLITA Secretariat. If requested, UNIDO could rescuit a small group of Policy Advisors to assist the Secretarist to propare studies on and eventually implement new policies established by the function of new industrial establishments, the tariff structure, industrial financing, company lates industrial standards, etc.

Ja Restand allet alent project - Rest Cortbberg

191. The Minsion beloves that a pilot plant project could unefully be established to develop and test the industrial processing of a range of locally grown agricultural crops (a) to produce processed and prepared foods for local consumption and export markets, and (b) to produce essential oils (lime oil, lemon oil, pimento oil, etc.) for local and export markets. The marketability of the products would also be carefully examined. Kingston, St. Vincent is considered to be a suitable location for such a project.

192. If the idea is nocepted in principle, UNIDO would be willing to send an exploratory mission to identify the range of agricultural crops to be considered, to establish detailed terms of reference for the project, and determine the form of assistance which UNIDO could provide. PAO would be invited to join this exploratory mission.

4. Pa. Angihinga Angalemant Spik

193. A deal's agroundst establishing the Caribbech Development Just was prepared at the beginning of 1968. Its declared purpose is "to contribute to the harmonious contents growth and development of the member countries in the "Caribbean region" and to presets contants integration enoug than, having special and urgest regard to the mode of the loss developed members of the region." Bestice the CAREFEA member countries, the Mark comprises also as regional methods the Viegin Jakonis, Chymra Jakanis, Turks and Calco Estable. Describer, its membership and that of CAREFEA in bot lists to be list listed in the Agreements

Whe the obtaining aptial stack of the link would be US & 65 million. Not have then GM of the septial would at all times be hold or be evaluable for subscription by regional members, and not more than did by other members, It is superiod that the numerogical members would be: the United Kingles, Sector and Paperto Rice; in addition, the United States will make a substance Mail land in the initial stages of the Brain's operation.

Sa Smallat Constanting

1955 De Mineter valieres that the artablishment of the GARIPH Industrial Development Centre and the Depicted Filet Flant project in the East Caribbeau the discogrimening of the GARIPH Deersterict and the implementation of the Aproximit to establish the Ceribbeau Development Deak will reinforce the process of regional co-approxies launched in May 1968 by the signing of the CARIPH Association Agrographie

VII. EECONIMATE FOR A PROGRAMIE OF ACTION TO FOLLOW-UP THIS REPORT. AND WELATED SUCCESSIONS FOR FURTHER UNIDO ASSISTANCE

196. The purpose of this chapter is to draw attention to the recommendations made in the report which require decisions by the C.RIFTA Governments and Council of Ministers for follow-up action, and where relevant report the suggestions made for further UNIDO assistance.

1. <u>Follow-up action to establish regional institutional machinery</u> 197. If the proposed <u>CaRIFFA Industrial Development Centre</u> is to be **Instance**, follow-up action could consist of (a) establishing a small committee of officials to guide its formation, and (b) requesting UNIPO to send an exploratory mission to draw up terms of reference for a continuing programme of technical assistance to the proposed contre.

198. If it is decided to strengthen the CARIFFA Scoretariat, follow-up sotion could include a request to UNIDD to supply a small group of Industrial Policy Advisors.

1998 If interest is expressed in the <u>Berlonal Pilot Project</u> - <u>Net</u> <u>Griphon</u> follow-up action could include a request to UNDO (and PAO) to further explore this potential project.

Sole The Mission considered whether a separate institution was justified to provide a central information and promotion service aimed at promoting introvergional trade in industrial goods. It believes such a service should form part of the functions of the CARL TA industrial Dovelopment Contro.

2. Pollon-us action in individual branches of industry

The Follow-up notion on the studios made of the four branches of industry studied by the team is suggested below.

(a) the textile industry.

This Mission recommended that the Governments of CARLFTA countries consider three textile projects:

- 1. An integrated cotton textile mill
- ii. An integrated textile mill using man-made fibres
- iii. A moderate-sized mill to produce cotton yarn

202. The first two projects have been studied in sufficient detail for the Governments to discuss their possible implementation with potential investors (both domentic and foreign). If requested, further assistance from UHDO could take the form of:

- 98. -

- (a) Providing a consultant firm to make a detailed study of the domand for these types of textile fabrics.
- (b) Assist local interest and/or Governments in locating suitable foreign investors and sources of financing to establish the two projects.
- (c) Providing a textile industry export (perhaps attached to the CARIFTA Industrial Development Centre) to evaluate specific proposals and supervise the initial stages of establishing these two textile projects, and other projects.

203. In addition, and purhaps at a later stage, UNIDO is willing to provide assistance in studying the feasibility of establishing (a) a polyester spinning plant, and (b) a nylon spinning plant.

ants of CARIFTA countries request the immediate assistance of PAO to study the technical and connercial feasibility of producing locally the types of cotton which will be required by the CARIFTA textile industry.

(b) Follow-up action for the food processing industry

205. In Chapter III, the Mission drew attention to opportunities to establish plants to supply all or a major part of the GARIFTA market which exists in the following branches of the food-processing industry: flour milling, dairy products, meat processing, enimal foodstuffs, fruit and vogetable processing and sugar refining.

266. All these opportunities will requir. further elaboration in the form of detailed feasibility studies before specific projects can be identified and their implementation promoted. If requested, UNIDO assistance in the elaboration and subsequent implementation of these projects could take the form of:

(a) Proparing more detailed studies of specific projects for each of these six branches of the food-processing industry. (b) On the basis of the findings of these studies, assist local interests and/or Governments in locating suitable foreign investors and sources of finance for some of the projects.

- % -

(c) An expert in food-processing industries to evaluate specific investment proposals and provide further advice during the initial stages of establishing these projects.

We The Mission also drew attention to the opportunity for developing a <u>fish-processing industry</u> to supply the GARDETA regional market and possibly export markets as well. If requested, UNIDO assistance in the eleboration and subsequent implementation of this regional project might take the form of:

- (a) An export on the fish-processing industry to make a detailed study of the possibility of establishing a regional fishpropossing project.
- (b) If the findings are favourable, use them as a basis either
 - (1) to attract the interest of a foreign investor in outablishing such a project as a jointwonture with local interests, or
 - (ii) to outline a continuing programme of UHIDD technical assistance to the project.

(c) Follow-up action for the pulp and paper industry

A final decision on followsup action must be based on a reading of the detailed report. In advance of reading this, it would appear worth while in the near future to make a market survey of the present and future depend within CARIFTS.

(a) for corrugated board

(b) for writing paper and other grades of fine paper.

809. If requested, UNIDO could provide an expert or firm of consultants to carry out these surveys.

(d) Follow-up action for the chemical industry

210. A final decision on follow-up action must be based on a reading of the dotailed report. In advance of reading this, it would appear worth while in the near future,

(a) to investigate in detail the feasibility of a large caustic soda plant;

- (b) examine the possibility of establishing a solar salt producing industry to supply this project and other local market requirements for salt;
- (c) to design the proposed sulphuric acid plant in Jamaica with the regional market in mind;
- (d) to make market studies to see whether furfural manufactured from bagasse can be seld in export markets;
- (c) to assess present and future demand in CARIFPA and present sources of supply for
 - (i) pharmacoutical proparations
 - (ii) soap, cosmetics and toiletrics
 - (iii) posticidos

211. UNIDO has been requested by Trinidad to assist on item (d) and by Jampica to provide a chemical industry advisor. Requests covering other items could be made or the studies could be made by the proposed CAMPTA Industrial Development Centres

THE DIFFERENT TYPES OF INCENTIVE MUSURES USED BY CARLETA COUNTRIES

a) <u>Pre-investment Stage</u>:

Barbudos, Ouyana, Jamaica and Trinidad und Tobago each have an Industrial Development Corporation, which is a semi-governmental body: It which potential local and foreign investors in identifying investment opportunities to the extent of offering considered opinions on suitable industries.

These corporations have mainly been concerned with promoting the establishment of plants which qualify for incentives; typically, these are the larger types of incustrual enterprises. The smaller entroprement appears to have derived less benefit from their programme so fats

In the other CERIFTM member countries, including Deline, no mediatance with identifying investment opportunities is now available. In mote of the twelve countries is there a body which is evailable at present to undertake, on behalf of investors, feasibility studies of industrial projects.

Divisional Land Little

The Industrial Development Corporations in Derbedon, Jampics and Trimidad and Tobaço have promoted the development of fully serviced industrial estates.

In Barbados, space can be rented in units of approximately 4,000 eq. ft. of a Multi-User building at a straight rental of about UE 35¢ per sq. ft. per annum, or separate factories of a minimum of 10,000 sq. ft. can be provided by the I.D.C. on a lesse/purchase arrangement. The cost of the building is amortized over 15 years by an annual rental of 1/15 of cost. In Jamaica, the rente charged for the factories sim at recovering their cost over a period of ten years; this involves a small subsidiery since the long is sold at cost, a price which is not below the current market price. All services, including water and power, re provided at normal rates.

Arinidad and Tobago is liberally provided with industrial parks as opposed to industrial estates in the generally accepted definitions of these terms. There are nome 405 acres developed or in the course of development, and a reserve of 417 acres. No special size restriction is placed on the site to be occupied by an enterprise. However, under the Corporation's regulations 40% of the "usable building space" must be covered by buildings, and not more than 65% of the site must be covered.

In Guyana, there is an industrial site and the rental is 5 US cents per sq. ft. per year. Mater and electricity are available, but their rates must be negotiated with the respective companies.

Nontserrat and St. Kitto-Nevis-Anguille have industrial sites, but Lond, water and electricity are provided at prevailing tariff rates.

In the other CARIFTA member countries, physical facilities are non-existant.

a) ingintante with labour !

Like some **ether developing countries**, lack of industrial skills is an important constraint on the industrial potential of the CARIFTA member countries. The efforts of the governments to provide assistance in the field of training for industrial skills are still limited. In Barbados, fin-neial assistance in in-plant training is given under a training scheme which offers a grant ranging between $\frac{1}{2}$ and $\frac{1}{2}$ of the wages paid during the first year for a training period not exceeding twelve weeks for each employee.

In Jamaica, the Industrial Development Corporation has provided training programmes for middle management and assisted firms in specific cases. Although the value of providing financial assistance to firms to help them with training labour is recognised, the contribution has so far been very small (£26,000 in 1966/1967 and a budgeted £37,000 for 1967/1968).

In Trinidua and Tobago, vocational training was linked, in the past, with apprenticoship schemes and administered by the Board of Industrial Praining. Government recognizes that this method is outmoded, and in the five-year plan 1963-1968, has made provisions for nine new vocational schools. The Industrial Development Corporation has established training schools for the hotel and estering trades and the experimented industries only as a crash programme designed to meet the needs of these industries in a certain kind of skilled labours.

St. Lucis has a technical school as well as a comprehensive school which is a posteprimary school, for the formation of skilled labour.

No assistance with labour is provided by the other countries of the CARIPTA area.

d) Assistance with Management:

The policy of all the governments in this area, on employment of foreign personnel in technical and menament positions, aims at creating a favourable climate for foreign investment. In principle, the governments' policy is for companies to train local personnel to replace foreign nationals in managerial and technical posts. This policy is implemented by the requirement that all foreign nationals should obtain a work permit. However, there has been no real pressure to replace foreign nationals by local personnel, and it is difficult to think of instances where an industrial project failed to go through on recount of difficulties in obtaining permission to import skilled personnel from abroad.

However, reference must be made to the Hanagement Development and Productivity Contre in Port of Spain. This contre has been established in 1965 with the help of U.H. Special Fund, the International Labour Organisation and the Government of Trinidad and Tobago. It works under the auspices of the Ministry of Trade. The centre provides training in modern management to managers, executives, specialists and industrial supervisors in Trinidad and Tobago, as well as to selected trainees in similar categories from other Eastern Caribbean Countries who may attend training programme in Port of Spain.

e) Protection from Porcien Competition:

In Jamaica and Trinidad and Tobago, governments make use of a moderate degree of tariff protection as well as of quantitative restrictions imposed by the import licencing system in order to secure some form of protection for their domestic industries from foreign competition.

As to the other GARIFTA member countries, including Belize, there has not been much need to date for tariff protection or physical import controls, except in the case of a very few small industries. The absence of this protection is due of the to the non-existence of industries in some of these islands, or to the censorous fiscal incentives which provide fewourably competitive terms to local industries. However, governments would, of course, be propared to consider protective measures for any wouldwhe industry where necessary.

() Reduction in Tariffa for Nav Materials, Plant and Machinery, etc.

The policy of granting exemptions on imports varies within the region. Montserrat and St. Vincent grant no exemption on raw materials, plant and mechinery. Among the other territories there are some who grant exemptions on plant, machinery and raw materials; others on plant and mechinery only and a third group exempts only raw materials. In Lominica and Trinidad and Tobago, the laws provide for the exemptions of customs duty on raw materials, building material, machinory or other appliances and material necessary for and used in the construction, alteration, extension, equipping and operation of the factory.

In Antigua, Barbados, Guyana, Jamaica and St. Kitts-Nevis-Anguilla, plant and machinery are admitted duty free for industries onjoying approved pioneer status. Firms who export 100% of their output obtain blanket exemptions from the payments of duties on imported raw materials. For firms who only export a properties of their output, a system of import duty draw-back exists. Some firms also benefit from special rulings on duty free importation of raw materials granted by the Hinistry of Trade.

Beline grants r.lief from customs duty only in respect of the importation of plant and machinery from the Commonwerlth, otherwise they are taxed 5% ad valorem. Delize does not grant any exemptions on imports of raw materials.

Grennda and St. Lucia grant exemptions on raw materials only, but not on plant building and machinery.

g) Pinance Autistance

The Barbados Development Board in Barbados, the Dovelopment Finance Corporation in Jamaica and the Industrial Dovelopment Corporation in Trinidad and Tobago are lembure of last resort and will make loans available to industries where finance is not available from other sources. The loans are usually for from five to ten years and interest varies actually between 8% and 8%. Guyana has a fund created conjointly by the local poverment and the government of the United States of America. It allows investors an opportunity to contract local of up to US\$250,000, although applications for larger sums will be considered. But in the case of obtaining a local, the application must purchase his imported goods from the United States of America.

No similar institution for making loans on favourable terms is svailable in the other CARIFTA member countries including Belizes

h) Piecel Incentives!

1. Examplion from income taxt All the CARIFTA countries make provision for this kind of incentive. Antigue, Dominica, Guyana, St. Kitts and Trinidad and Tobago give an income tax exemption for five years for new approved industries, flowever, this period can be extended to ten years in Trinidad and Tobago, and to fifteen in St. Kitts; in Dominica an enterprise located in the Cabrite area could be granted exemption for a period of thirty years as from 16 February 1968. Grenade and Hentserrit provide for income tex exemption for seven years; in St. Lucia on enterprise may be entitled to such proportions to relief from income tax at it specified in the Development Order for 6 period of seven years. In Deliae and St. Vincent the exemption in ten years.

Jamaica and Barbados offer an approved enterprise the option of choosing a straight forward excaption from income tax of seven and ten years respectively (option 1) or of prefering an alternative arrangement (option 2). In Jamaica this comprises complete examption from income tax for a period of four years from the date chosen by the enterprise

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within three years from the date of production and further (i) if the company is entitled to 100% relief, it will enjoy the exemption with respect to 03 1/3% of income in the fifth year and to 66 2/3% of income in the mixth year before deduction of annual allowances;

(ii) if the company is entitled to 50% relief, it will enjoy the exemption with respect to 66 2/3% of income in the fifth year and 83 1/3% of income in the sixth year before deduction of annual allowances. In Barbados, the second option comprises complete exemption from income tax in the first seven years and 2/3 exemption from income tax in the first seven years and 2/3 exemption from income tax in the sight year and 1/3 in the minth year. Jameica also parmits a longer exemption from income tax, of ten years for new product industries or of an much as 15 years for industries logated in cortain development product

2. Conital allowoncess In Antique, Boline, Dominico, Gremade, Montsverst, St. Lucia and St. Vincent no special provisions have been made in this respect. It is ensumed, therefore, that amount of the enterprise will be written down during the tax holiday period in the normal manner laid down in the income tex ordinance.

In Goycan, 51. Kitts and Trinidad and Tobago, in computing the income of the tex holiday period and for the whole of the accounting period in which the last day of the tax holiday period falls no allownon for wear and tear is to be made. Allowances shall be computed after the tex holiday period as if the special expenditure incorred up to the end of that period ware incorred on the first day following thereafter. In St. Fitte the computations call include only annual wave and toar cllowinger, not initial algoringes. In Muyana and Trinidad and Tologo the entrepreneur is entitled to chain both initial and connucl allowences.

In Brbados and Jamaica, under option 1, mation 1 depreciation of assets will be made during the tax holiday period and annual allowances can be claimed after the tax holiday period at the written down value. Under option 2, prior to commencement of the holiday period, annual allowances shall be made, but they will comes during the first neven years of holiday period in Berbadon and four year period in Jamaica; again manual allowance will be made starting with the eigth and fifth year respectively of the tax boliday period on the original cost less the allowances made before the commencement of the tax boliday periods.

Je ione plinets in Antigue, Doline, Gronad:, Hontsorret and St. Lucia, losses not set off during the tax holiday period may be carried forward for the six succeeding years on certain slightly varying conditions. In Dominica this period is five years.

In Ouyans and Trinided and Tobage, any loss insured during the ter holiday period is to be set off without limitation against the instance of the onterprise in the period immediately following. The same is true in St. Kitts and St. Vincent except that the offset must not reduce the income tex payable in any year to lose than 50%. In Barbados, under option 1, cli losses incurred during the tax holiday period in excess of the profite of the same period may be carried forward over the five succeeding years. Under option 2, all losses incurred during the first seven years in excess of any profits during the same period together with any loss incurred and not set off before the commencement of the seven-year period may be carried forward and set off over the five years following the minomyear period of tax holidate.

In Jamaica, losses **incurred out not written** off during the tax holiday period without taking into account any depreciation of annots can be carried forward over the next six years. Under option 2 losses incurred and not written off during the six years of tax holiday period after taking into recount allowances made before the tax holiday period and during the last two years of the tax holiday period, can be carried for six years following the tax holiday period.

1) Interest de concernance. Local de lavore bereter

The cachings control rules in the CARIFA member countries including Beline are similar. Seatded, all these countries are members of starling crea.

Capital payments, incoming and outgoing, are subject to come control. The repatriations of capital in the form of direct foreign investment and the repayment of lonns are allowed, provided that the original investment or lean had received previous approval of the exchange control authorities. It is the practice in this area to allow dividends and interest payable to charcholders, the have made investments in US dellars, to be converted into US dellars and to be transferred in full to the country of residence of the investor after meeting all expenditure, charges, taxation, etc., payable in the region.

j) Bilaterel und Multilatoral Measures

All the CARIFTA member countries, including Belize, have megotisted double transition agreements with the United States of America, Canada and the U.K.

Barbadow, Belise, Jamaice, Hontserr.t. St. Lucia and St. Vincent have also double taxation agreements with Denmark, Horway and Broden.

Only Jamaice, Nontserrat and St. Vincent have double taxation Acreements with New Conland, while only Belise and St. Dick have the man agreement with Switzerland.

Dellac, Janaica, Hontsorrat, St. Lucia, St. Vincent and Drimided and Tokago are eignatories to the Convention for the Settlement of Investment Disputes.

