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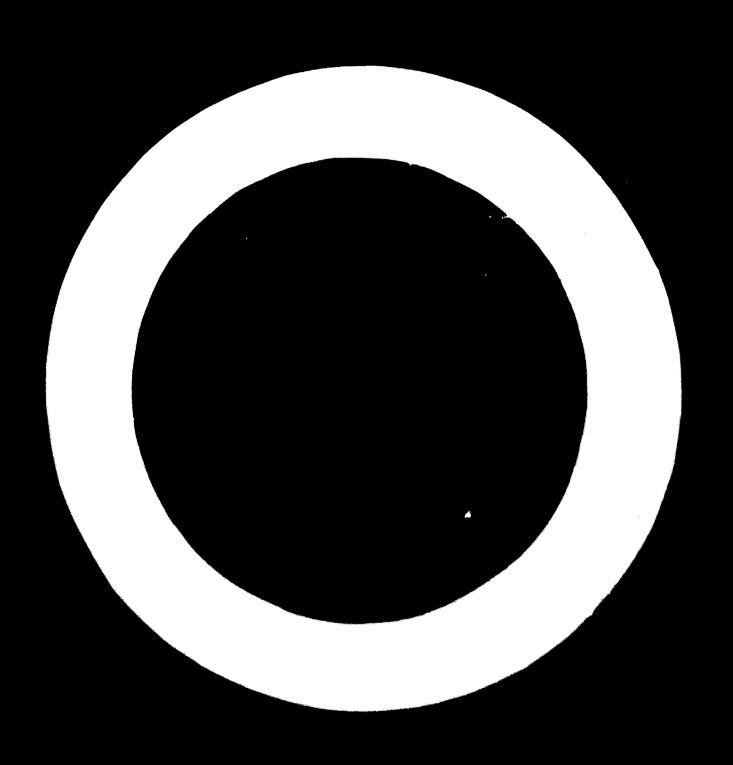
INDUSTRIAL DEVELOPMENT STRATEGY AND POLICIES:
THE EXPERIENCE OF CHANA, 1950-1973 1/

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. 1. PRE-COMPLITION: FOR INDUSTRIALISATION

- A. The Market: The domestic market for manufactured goods in the 1950s was reasonably large to support the establishment of a number of import-substituting industries. Some of the major industries established in the 1950's and early 1960's are listed in Table I. Chana's import statistics were used as the basis for deciding on the types of import-substituting industries that were established.
 - 2. The size of the local market was a major determining factor in the establishment of now import—substituting industries. Those import—substituting industries which could not be supported by the local market were not implemented at all. Examples of these are cement and steel rod manufacture whose establishment was delayed until the middle of the 1960's. The cement and steel rods establishments now have combined capacities of 600,000 tons (cement) and 30,000 tons (steel rods) per annum.
 - 3. The other category of new industries established in the early stages of industrialisation were those industries based on forest and mineral resources. Examples of industries in this category are swamilling and plywood manufacture (forest-based industries); and mineral-based industries gold, diamond, manganese and bauxite mining. These had ready export markets, and the small size of the local market was therefore no consideration.
 - 4. Since the two categories of new industries were tailored to existing markets (local and export), newly-established industries did not, as a rule, encounter difficulties because of the small size of the market.

B. Transport and communion blons

- 5. In 195! there were 1,398 miles of class I motor roads (i.e. bitumen-surfaced roads) and 2,093 miles of second-class roads (i.e. gravel-surfaced roads). In 196! there were some 20,000 miles of roads of which 2,053 were bitumen-surfaced and 3,277 miles gravel-surfaced trunk roads. The other 14,000 odd miles were third class roads without regular maintenance.
- 6. There were in 1951 444 post offices and 7,383 telephones as against 779 post offices and 25,488 telephones in 1961.
- 7. In 1961 there were 589 miles of railway network linking Ashanti and other central parts of Ghana with the coastal harbour towns of Acera and Sekondi-Takoradi, and carrying about 5.4 million passengers and 2.5 million tons of goods annually.
- 8. Air transport expanded both internally and externally with the establishment of Ghana Airways in 1958.

9. The Black Star line, the national shipping line, was established soon after independence in 1957; and by the end of 1962 it had a fleet of twelve vessels of a total of 107,000 tons deadweight.

Until 1958 the crevit side of Ghana's balance of payments on current account for freight and insurance was nil. With the establishment of the Black Star Line the situation changed — earnings on freight and insurance showed £566,000 in 1959 on the credit side of the country's balance of payments on current account. The receipts for 1961 showed an increase of 32% over 1959 (£563,000 to £750,000).

10. The existence of these transport and communication services facilitated industrial development in the 1950's and 1960's. In a few cases transport difficulties have delayed the development of local raw materials. An example is the Nauli limestone deposit which it is intended to develop to feed the two coment clinker grinding mills at Takoradi and Tema.

C. Power and Water:

11. In the 1950's and 1960's supplies of water and alestrioprover were available mainly in the cities of Acora, Kumasi and Sekondi—Takoradi and some Urban Centres. The absence of an even distribution of pipe-borne water and electricity in the country contributed to the concentration of industries in the cities. The few industries, such as mining and timber processing, which by their nature had to be established in the rural areas, had to provide their own sources of pipe-borne water and electricity. In some cases, they also had to provide their own feeder and access roads.

Lack of pipe-borne water and electricity and good feeder roads, in the rural areas has been a major factor findering the industrial development of parts of the country outside the spin centres of population.

D. Industrial sites:

- 13. There was no systematic development of industric? eites in the 1950's. Eites were acquired from land owners directly by investors. In the latter part of the 1950's the Industrial Development Corporation developed an industrial estate at Labadi in Accra. This estate consisted of about 50 units of factory buildings provided with water, electricity and access roads.
- 13. Since the 1960's the Lands Department of the Central Coverment has been directly responsible for the acquisition of lands in the cities of Accrs, Kumasi and Sekondi-Tukoradi for development as industrial sites provided with water, electricity, roads, and telephone. Plets are allecated to industrialists in these industrial areas according to their requirements.
- 14. The Ministry of Industries with the co-operation of the Regional Administrations, the Lands Department, and the Twwn Planning Authorities, is engaged on the provision of industrial zones in the other regional and urban centres.

B. Local Ray Materials:

- 15. In some cases new industries cotablished in the 1950's found suitable local raw materials. Notable among these were the Mining, Wood Processing, and Food Processing industries. Rowever, many of the new import—substituting industries established in the 1950's and 1960's depended to a large extent on imported raw materials.
- 16. In the 1950's there were no import restrictions.

 Import controls were introduced
 from the early 1960's. But industrialists were still permitted to
 import raw materials that were not available locally. The main objective
 of the controls was to ensure that scarce foreign exchange resources were
 utilised judiciously.

P. Busan skills:

- 17. In the early 1950's shortage of human skills acted as a constraint on industrialisation in varying degrees in the following areas:-
 - (a) Skilled Workers
 - (b) Supervision (foreman)
 - (c) Accountants
 - (d) Engineers
 - (e) Middle Munagement
 - (f) Senior Management.

The shortage has since been over-come, except that the position is not yet satisfactory in regard to Accountants and Middle Management.

C. Available Financings

- 18. In the 1950's long-term financing on appropriate terms was not available for the establishment of new industrial enterprises. In the 1950's and 1960's many of the enterprises were established on the basis of suppliers oredit and medium-term credits.
- 19. New institutions which were established in the later 1950 and in the 1960's to meet expanding demand for investment funds were the Chana Industrial Development Corporation, established in 1954, Chana Commercial Bank, and the National Investment Bank.
- 20. Like raw materials, importation of machinery is subject to import control. An investment that has been approved by the Government (i.e. by the Ministry of Industries) is granted import licence to import the messenary machinery and equipment.

E. <u>Introprencurial Initiatives</u>

- 21. The main sources of initiative in starting new manufacturing enterprises in the private sector were:-
 - (a) Chanaian merchants and cooca farmers;

- (b) Resident Lehanese and Indian merchants;
 Large foreign-owned commercial firms that had been o eruting in the country prior to independence.
- 22. In the 1960's Government became the greatest source of investment in the industrial field.

II. INDUSTRIALISATION ACREMENTATES LE LE FERIOD 1950 - 1972/73 .

A. A brief reviews

- 23. Some 25 major new industrial projects established in the 1950's and 1960's which contributed to a broad sing of the structure of the industrial sector are listed in Table I.
- 24. Resource-based industries (i.e. industries based on agriculture, forestry and minerals) have contributed significantly to the industria-lisation process over the last twenty years. Because of their great export potentials, the mining and wood-processing industries made it possible in the 1950's and 1960's for large-scale industries to be established whose outputs, though far in excess of the local market size, found ready markets and thus helped to accelerate the rate of economic development in general, and industrial development in particular.
- 25. In 1970 the resource-based industries contribution to total industrial production was 60%. The contribution was over 70% if "Textiles" is included. Their share of the 1970 total industrial employment was 61% (excluding Textiles).
- 26. In the 1950's and 1960's the mining and timber industries, by being established in the rural areas, contributed to the opening up of these areas. The areas lacked electricity, pipe-borne water, and good feeder roads, and it became necessary for the mining and timber industries to provide the infrastructural facilities as part of the project costs.
- 27. The extent to which the pattern of new industries has switched from consumer goods to intermediate and capital goods is illustrated in Table 6.
- 26. Table 7 illustrates the role played by industries supplying the construction and housing industry over the last twenty years.
- 29. As already indicated in Chapter I, with the exception of the mining and wood-processing industries, the industries established over the last twenty years concentrated on supplying the domestic market. Since many imported goods have been subject to physical controls ("Banned" and "Restricted" Imports) over the last eighteen years, an estimate of local demand on the basis of local production plus imports may not be a true reflection of the real size of the market. One way of stating the proportion of local demand for manufactured goods supplied by local industries is to indicate the extent of import substitution achieved by the industry.

On the basis of 1970/72 data, the extent of import substitution achieved for selected goods is as follows:-

tom			<u></u>	Extent of import substitution (1973)
Tobacco	• •	**	s 4	100%
Beverag	05 ··	• •	• •	100%
Bisouit	8	• •	• •	90%
Wheat f	lour		8 -	100%
(Based	on imported whe	at)		
Sugar	••	• •	••	15% (possibly 5% by 1974)
Househo	ld wase (ename)	. aluminium	oitasiq & a	100%
Furni tu		.,	• •	100%
	detergents	4.	• •	70%
	euticals		••	15%
	(Building)	••	4.	100%
11	(other)	••	4.	30%
Sefety	matches	.1	• •	30% 100%
Candle		44	• •	80%
	(based on impor	cted olinker	• •	50% - 100%
(There	are wide fluoti	ations in	levels of	
	depending on of			
	bottles for bev		• •	100%
	le wires and oa		nterprise)	About 80%
	tyres & tubes	••	• •	u 60%
Steel	rods (small size	es)	• •	90%
	s (cotton spin		• •	15%
#	(woven & kni		s - as inter	-
	mediate pro		• •	50%
. 11	(fancy print		• •	90%
H	(wax prints)	•	• •	50%
97	Carments	•	• •	50% 90% 50% 95%
P. V. C.	and Asbestos	ement pipes	• •	100%
	abeets (Asbet			s∳d
Iron)				100%
			machinery)	5% - 10%

30. Industries that have been successful in exporting manufactured goods are those producing plywood, footwear, mattresses, travel goods, canned fruits and vegetables, garments, textile fabrics — dyed, tolour-woven, and printed; electronic equipment (transitor radios etc). Some exports to neighbouring countries is not get recorded. These are usually those taken out by returning visitors.

31. The proportion of national manufacturing output that is exported is estimated in the table below -

		1950 million	1960 g million	1970 1 2 mill.	972 ß mill.
(a)	Total output of manufacturing (constant prices)	108.0	200.0	340.0 (400.0)	370.0 (436.0)

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32. Very little access to have been done by way of establishing industries with capacities designed to supply a sub-regional market. Perhaps the only exception is the Volta River Hydro-electric project which now supplies power to the Republics of Togo and Dahomey. There was a proposal in the 1960's for integrating the Tema Steelworks with the Liberian Faron and steel project. The matter was, however, not followed up.
The possibility of implementing a joint Chana-Togo coment clinker project is currently under consideration by the respective Governments.

B. Statistical Indicators of Industrial Development Progress:

3.3 The contribution of the manufacturing sector to national output in 1950, 1960, and 1970 is indicated in Table 8; and also in Table 2.

M. Table 9 provides information on the relative contributions to mammae-turing output made by:-

- (a) entermises employing 100 persons or more;
- (b) enterprises employing 10 99 persons: and
- (e) enterprises employing less than 10 persons.

35. Table 4 contains information on the contribution made by industry to total employment in the Ghana economy in 1950, 1960 1970 & 1972.

36. The proportion of menufacturing output in 1970 produced in enterprises in (a) the public sector, (b) the private sector and (c) the j oint state/private sector is indicated in Table 10.

III. THE STRAILSY OF A SUCTRIALISM CO., 1960 - 1972

- A. Selection of priority industrious
- There have been five development plans in Ghana over the part trenty years, namely:
 - (a) The First and Connolidation Plans, 1961-1958;
 - (b) The Second Development Plan, 1959-1963/64;
 - (a) The Seven-Year Development Plan, 1963/64-1969/70;
 - (d) Two-Year Development Plan, 1968-1970;
 - (c) One-Year Development Plan, July 1970 June 1971.

 The Development Plans mentioned in (a), (d) & (e) above were more or less stop-gap programmes, and did not deal with Hanufacturing as exhaustively as (b) & (c), particularly (c), i.e., the Seven-Year Development Plan.
- Second Development Plan contained a description of priorities for the development of new industries, in general terms. The Second Development Plan and the Seven-Year Plan identified industrial priorities in both descriptive and quantitative terms. The Second Development Plan's quantitative target was in the form of a list of projects for implementation. In all, the Second Development Plan envisaged the establishment of 600 new factories by the end of the plan period. The Plan contained a list of 36 projects which were ready for implementation. A further list of 100 industries w s under consideration. The thirty-eight in respect of which preliminary investigations had been completed and which were listed in the Plan, were:-
 - (i) Cetter Spinning & Weaving: (ii) Textile bleaching —

 dyeing and printing: (iii) Knitwear; (iv) Tenneries;

 (v) Leather goods; (vi) Poots & Shoes; (vii) Cement;

 (viii) Glass; (ix) Building materials; (x) Paper andpaper products; (xi) Domestic holloware; (xii) Aluminium

 products; (xiii) Hetal processing; (xiv) Radio assembly;

 (xv) Motor car assembly; (xvi) Metal sorews; (xvii) Bottle

 eaps; (xviii) Steelworks; (xix) Distilleries; (xx) Bye
 products of salt; (xxi) Paints & colours (xxii) Varnishes

 and lacquers; (xxii) Pharmacouticals; (xxiv) Fertilisers;

 (xxv) Jusecticides; (xxvi) Cosmetics; (xxix) Rubber

 products; (xxviii) Plastic products (xxix) Bamboo products;

(xxx) Coir products; (xxxi, Pencils; (xxxi) Oil mills; (xxxii) Flour milling; (xxxiv) Cannories; (xxxv) Fish products; (xxxi) Starch.

- 59. The Second Development Plan placed emphasis on the following:-
 - (a) Establishment of import substituting industries to meet the growing domand for manufactured goods.
 - (b) Increased employment for school leavers;
 - (c) Full use of the infrastructural facilities provided by the Government under the First and Consolidation Plans; and
 - (d) Diversification of the economy.
- The Seven-Year Development Plan's quantitative target was much more detailed: each item was stated in terms of volume, value or output, local raw materials, imported raw materials, and potential exports. The quantitative target is reproduced in Table Eleven.
- 41. The targets of the 7-Year Plan, in terms of general criteria, were as follow:-
 - (a) To the largest degree possible, substituteswere to be produced for those manufactured staples of consumer demand on which Ghana spent large sums of foreign exchange each year;
 - (b) Agricultural and minoral products exported mostly as unprocessed primary products were to be progressively processed and manufactured before export;
 - (c) The building materials industry was to be expanded and modernised to enable it to support the expected increased activity in construction and a start was to be made on development of other basic industries in the field of metals and chemicals.
 - (d) A beginning was to be made in the field of machine industries, electrical equipment and electronics;
 - (e) Industries were to be developed in such a way that they fitted in with development in other African countries.

- 42. The On -Team Development Pinn (1970-71) provided the following guidelines:-
 - (a) Inducements such as export benus and duty draw-back were to be given to those industries with export potential and those based on substantial use of local resources and yielding high not earnings in foreign exchange.
 - (b) Promotion of industries with potential for producing intermediate goods at competitive prices;
 - (a) Allocation of increased import licences to those industries which, by increasing their capacity utilisation levels, could reduce costs substantially both to themselves and to other industries;
 - (d) The Government would continue to encourage importsubstituting industries, especially those manufacturing essential commodities with low import contents.
 - (e) Concrete plans were to be introduced in the course of 1970/71 for promoting small and medium.

 scale industries generally and, in particular, small-scale Ghanaian industries;
 - (f) With a wiew to achieving increased rationalisation in the use of available resources, and to encourage rural development, a Bill was to be introduced into Parliament giving the Ministry of Industries legal powers to control the establishment of new industries and expansion of existing ones. The aim, among other things, was to encourage increased use of labour and a shift of investments into the rural areas.

only two remain unimplemented in 1973. These are Bye-products of salt and Pertilizers. With the exception of Gold Refining, all projects listed in the Seven-Year Development Plan have been implemented. Judged in terms of project lists and levels of investment, the targets set in the Development Plans can be said to have been achieved. The increases in manufacturing cutput, however, fell below plaused levels.

43.

The main reasons for this were the foreign e-change constraint and the manufacturing sector's heavy dependence on imported inputs.

- 44. The new industries established in the 1950's and 1960's followed the priorities cutlined in the Government's plans. The Government itself played a major and direct role in the establishment of new industries in 1950's and first half of the 1960's. Private initiative in the identification and implementation of new industries assumed importance in the second half of the 1960's. Unlike the Second Development Plan and the 7-Year Development Plan, the Development Plans from 1967 to 1971 were stop-gap programmes with industrial objectives stated in broad terms. In 1970 administrative and physical controls on most imports were abelished and imports, including machinery, were placed on Open General Licence. These two factors allowed a great dual of discretion to private investors; and made it possible for private initiative to establish now industries which did not necessarily scafera to the Government's economic objectives.
- Procedures for evaluating the national costs and benefits and the commercial viability of major new industrial projects. Though the Hinistry of Industries had been established as far back as 1952, it was not until the passing of the Hamufacturing Industries Act in 1971 that the Hinistry was given legal backing as the institution responsible for control of the establishment of new industries. Before then, the Ministry's project evaluation and control functions had been exercised administratively. The Capital Investments Board, established in 1965, does not appear to have established any objective set of criteria for project evaluation until the 1970's.
- At present (1975) not only are the functions of the Ministry of Industries and the Capital Investments Board well co-ordinated, but a set of objective criteria has been evelved for the evaluation of the Commercial viability and the social costs and benefits of major industrial projects.

- B. Implementation of Industrial Projects:
- 47. Government policies over the period 1950-1973 have given clear indications of the respective roles of state, private and foreign investment in the economy of Chana. From the 1950's to 1966, the G. sernment recognised the following sectors:-
 - (a) The State sector;
 - (b) The Joint State/Private Sector;
 - (c) The Small-Scale Private Changian Enterprise Sector;
 - (d) The Foreign Private Sector; and
 - (c) The Co-Operative Sector.

Private foreign capital was confined to large-scale industrial investments. Private Chanaians were confined to the operation of small-scale enterprises employing not more than 30 persons or with a fixed investment of not more than £20,000. Chanaian Industrial Co-Operatives could operate larger industrial enterprises.

- 48. The following were reserved exclusively to the State:-
 - (a) Railway transport;
 - (b) Electricity Concration for public sale;
 - (c) Radio broadcasting;
 - (d) Atomic energy;
 - (e) Hanufacture of arms & communition;
 - (f) Waterworks, for the public sale of water;
 - (g) Telecommunications;
 - (h) Export of cocoa.

The Joint State/Private Sector comprised the manufacture of alcohol, alcoholic beverages, and any other enterprise that might be jointly implemented later.

- 49. Since 1967 the following sectors have been recognised by the Government:-
 - (a) The State Sector;
 - (b) The Private Sector (including Co-Operatives);
 - (c) The Joint State/Private Sector.

Industrial policy in the period 1967-1971 showed a significant shift of emphasis from State ownership to private ownership.

- continuing to recognize the three scators listed in paregraph 49 above, has placed emphasis on the need for Chendians to be self-reliant as far as possible. Present policy does not consider that Chana should rely solely on the price mechanism and the inter-play of market forces for the efficient and equitable allocation of her economic resources. This recognising the important role of the private sector in the economic development of the country, Government also recognises its critical role as a policy maker responsible for ensuring that the operation of the private sector provides lasting benefits to the economy.
- Government policies over the last twenty years were elaborated in the Development Plans and also in the form of Policy statements. Each of the Development Plans listed in paragraph 37 above was prefaced with the Government's general economic and industrial policy.
- the main thrust of industrialisation came from the private sector, especially from foreign individuals and firms that had been trading in Ghana. From the second half of the 1950's through the first half of the 1960's initiative for the establishment of new industrial enterprises came from the Government There has been very little industrial development through the initiative of aid denors. The exception, perhaps, is the Velta River Project in which foreign aid played an important rele.
- C. Premoting Export of Manufactured Goods:
- It was in 1969 that a definite programme for the export of manufactured goods was evolved. Though export of manufactured goods showed some improvement over previous years, a great deal of such improvement was concentrated in two or three industries, with most manufacturing factories in Ghana still depending on the local market. The reasons for the relatively poor export performance were:-

^{* (}a) *Outline of Covernment Economic Pelicy*-Accra, June 1972;

⁽b) "Outline of Ghana's Investment Policy"-Accra, March, 1973.

- (a) high production costs resulting in a week competitive position for Ghanaian namefactures;
- (b) poor product presentation (c.g. poor packaging);
- (c) cumbersome export and expert incentive procedures;
- (4) discriminatory practices by foreign countries e.g. D.E.C. and Associates.

D. Promoting Employment:

- 1960's was relatively lower than the cost of capital (i.e. machinery and equipment plus import duties), a great number of the industries established in the period did not use capital-saving (labour-intensive) processes. This state of affairs could be attributed to:-
 - (a) Lack of technology adaptation techniques;
 - (b) Absonce of logally recognised institutional procedures for project evaluation and control;
 - (c) Undue dependence upon suppliers' credits.
- described in the preceding paragraph. Employment effect and other social benefits constitute important criteria in the evaluation of new industrial proposals.

Lecation of Industries in Now Centres & Rrural Arons:

- In the 1960's the Government gave some encouragement to the establishment of rural industries through the Ghana Industrial Development Corporation and INDUSCO (Industrial Co-Operative Seciety) which was respectable—for the setting up of rural industries. Seme of the rural industries did well, but others had to be closed down or sold to private Chanaians, because of their poor porformance resulting from inadequate working capital and lack of efficient and responsible management.
- 57. A schome nimed at encouraging private investors to site their factories in rural areas was announced in 1967; but no effect was given to it.
- The 1971/72 Budget proposals made provision for an accelerated development of the rural areas. However, the scheme did not make much headway before the change of Government in January 1972.

- Provision has been made in the 1973/74 Estimates for the Hinistry of Industries' programs of pro-feasibility studies and project indentification in the various regions of Chang. It is hoped that this will provide a basis for locating industries in new coatres and rural areas.
- P. Development of Hanufacturing Technology.
- Acquisition of foreign technical collaboration in the 1960's took the forms of management agency agreements and joint ventures.

 The local partners had little control over the types of technology adepted.
- In the 1970's there has been a growing awareness of the seed to premote a national capability for the adaptation of foreign technologies to local needs. To this end the Ministry has established eless liaises with the University of Science & Technology, Kumasi, and the Council for Scientific and Industrial Research. In addition, the Ministry is encouraging investment in engineering industries specialising in plant design and manufacture.
 - Training of Local Labour & Managements
 - As far back as 1959 the Government laid down three conditions which were to be observed by all industries, whether stateeward or private. These were that the management should:-
 - (a) recognise trade unions;
 - (b) train Ghanaians for superior posts;
 - (e) employ Chanaians in superior posts whoreever feasible.
 - Under the Capital Investments Act any investor whe is granted tax and other concessions is obliged to institute a training scheme for his Ghanaian employees. Similary, any company that is granted immigrant quota is obliged to institute a training scheme for its Chanaian personnel. Most employers in Ghana are non required to pay an annual fee of five thousand codis in respect of each expatriate quota held by their companies. This measure will, among other things, ensure that employers give serious attention to the training and employment of local labour.
 - 64., The Government does not subsidise the training programmes of the private firms. However, there exist Government-sponsored

training institutions which supplement the efforts of private enterprises. Some of these are the University of Science and Technology, Kumasi, the School of Administration, Legon, the Ghana Institute of Management & Public Administration, the Management & Productivity Institute, and several Polytechnics and Technical Institutes.

- IV. INDUSTRIAL POLICIES AND MEASURES 1950-1973.
- In the 1950's and 1960's there were no specific procedures for ensuring that projects established in the public sector were technically and commercially sound. Guidelines, were, however, laid down for the processing of projects. No proposal was to be considered for implementation unless its financial and economic implications had been cleared with the Ministry of Finance and the Office of the Planning Commission.

 The project proposal submitted for cabinet approval was to be supported with a clear statement containing the following information:
 - (a) local cost:
 - (b) foreign exchange cost;
 - (c) a certification that the proposal had been accepted by the budgetary and planning authorities.

The Ministry of Finance and the Office of the Planning Commission were, in turn, to ensure that other Ministries or Departments concerned had been consulted before giving their approval for the project proposal to be submitted to the Cabinet for final decision.

- The Government followed "a common-sense and practical approach to industrial development" in the 1950's and the first half of the 1960's.*
- 67. Generally speaking, tariffs have been used for purposes of raising revenue for Contral Government expenditure and not for purposes of industrial promotion. The tariff system has also been used as a means of rationing scarce foreign exchange resources.
- Generations for the importation of machinery, spares, and raw materials have been available to investors since the 1950's. Provisions for such concessions were made in the Local Industries (Customs Duties Relief) Act, 1959, the Capital Investments Act, 1963, and Capital Investments Decree, 1973. Although these concessions

[•] Second Development Plan 1959-64, Page (iv).

have had salutary effect on industrial investment generally, there appear to have been some adverse effects by way of discouraging the development of local industries supplying equipment, spares and rew materials.

- incentive measure was in 1959. The Pioneer Industries Let 1959 and the Pioneer Industries Let 1961 contained provisions for tax concessions to new industrial enterprises. The Let did not specify the extent of such concession. This was left to the discretion of the Governor-General acting on the advice of the Minister of Finance.
- Under the Capital Investments Act of 1963 and the Capital Investments Decree 1973 new enterprises can be granted exemption from company tax for five years or for such longer period from the production date not exceeding ten years. In addition, a new company may be granted investment incentives in respect of capital allowances, scientific research, property tax as well as relief from double taxation. By and large, these incentives have been successful in enhancing industrial development.
- There have never been separate enactments for foreign investments as such. There are, however, previsions safeguarding the interests of foreign investors. Article 34(1) of Chana's (Independence) Constitution provided guarantees for private investment. Again, after independence, the Government of Chana signed an agreement with the Covernment of the United States of increes guaranteeing the rights of American investors in Chana. In the 1960's Chana became signatory to the Vorld Bank's Covenant on the guarantee of foreign investments. The Capital Investments

 Decree 1975 contains provisions on the guarantee of foreign investment

V. INSTITUTIONS AND INDUSTRIALIZATION, 1050-1973.

- 71. The Planning Commission, in the 1250's and early 1960's, had overall responsibility for the formulation of the broad strategy of industrialisation. The Commission was under the Chairmanship of the President, with the Minister of Economic Planning as Depary Chairman. The Office of the Planning Commission, the Secretariat of the Commission, was responsible for formulation of plane, the verification of performance, and for co-ordination. The Ministry of Industries was responsible for collection and assembling of industrial data required by the Office of the Planning Commission (later Ministry of Economic Planning) for formulation of broad strategy of industrialisation.
- 72. The Ministry of Industries is now responsible for the formulation of the broad strategy of industrialisation.
- 73. The Ghana Industrial Development Corporation was responsible from 1954 to 1951 for the implementation and overall performance of industrial projects implemented in the public sector. The Ministry of Industries took over this responsibility upon the dissolution of the I.P.C. in 1961. Responsibility for the obstance owned enterprises passed to the State Enterprises Secretariat in 1955 and later to the Ghana Industrial Holding Corporation in 1965. Government is currently considering the establishment of a new body, the "Board of Government Business", to be responsible for the various state corporations (excluding the utility services).
- 74. Up to 1963, responsibility for implementing investment incentives and other measures used to promote private and foreign investment was contralised in the Ninistry of Finance. This responsibility was transferred to the Capital Investments Board upon the establishment of the Board in 1963.
- 95. From 1954 to the time of its dissolution in 1961, the Ghana Industrial Development Corporation had responsibility for providing finance for industry.

The I.D.C. was charged, among other things, with responsibility for the following:-

- (a) To assist small industrial concerns through the provision of machinery and equipment on credit terms;
- (b) To provide equity capital for the expansion of existing enterprises or establishment of new ones on joint venture basis;
- (c) To provide, out of a special fund set aside for that purpose, loans to small industrial concerns not incorporated as limited liability companies, provided that adequate security was given.
- The National Investment Bank, established in 1963, is now the main source of industrial finance. Besides industrial financing, the Bank assists in the identification and promotion of new industries. The commercial banks have Development Finance Units part of whose functions is industrial financing.
- 77. Polytechnics, Technical Institutes and a Textile
 Training Centre provide courses aimed at improving the supply
 and quality of skilled labour for industry. The following
 institutions provide courses in management training -
 - (a) Management and Productivity Institute;
 - (b) Ghana Institute of Management and Public Administration;
 - (c) The School of Admiristration, Legon.
- Private investment promotion is carried on by the Ministry of Industries and the Capital Investments Board. The National Investment Bank also engages in promotional activities from time to time. However, the Ministry of Industries has sole responsibility for issuing licences for the establishment of new industrial enterprises.
- 79. Export promotion is the responsibility of the Ministry of Trade & Tourism and the Export Promotion Council. The Ghama Export Company Ltd., sponsored by the Bank of Ghama, engages directly in the export of Ghamaian goods.

- A beginning is being made for the establishment of a unit for the provision of technical information on selection of manufacturing processes; product design, and machinery and equipment suitable for local conditions. The Council for Scientific and Industrial Research and the University of Science & Technology are involved in the exercise, with the Ministry of Industrial playing the role of co-ordinator.
- 81. There is also a National Standards Board which is responsible for exercising control on the quality of locally-panufactured products.
- The institutions mentioned in this chapter exercise functions related to industrial development in varying degrees. These
 functions are effectively co-ordinated by the Ministry of
 Industries which has direct responsibility for industrial development under the Manufacturing Industries Act, 1971; the Hanufacturing Industries Regulations, 1972; and the Manufacturing Industries
 (Exemption) Instrument, 1972.

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TABLE 1.	3 10		LINE OF MAJOR	INDUSTR	UES ESTABL	INDUSTRIES ESTABLISHED LING	1950	
	Preducts preduced by the enterprise	Date esta- blishe	Fixed Invest- ment (1970) (million \$)	Annual sales (1970) .(•)	fost of imported wipplifes (1970)	Value Added (1970)	No. of employees (1970)	Tariff protection (1973)
-	Tobacce (2 establishments)	38	ø\$.0	0.924	\$2.5	(e)0.£ 2 %	1,000	a) Tobacco \$2.33 per 1b. b) Cigarettes \$11.43 cigarettes banned Tobacco restricted
~	Beverages (2 Mrwaries, 75%. 2 Distilleries soft drinks) 25%.	26 65 82 65 83 65	£ 12.0	¢32.0	£10.c	\$21.0	3, 150	Imports of alcoholic drinks are banned \$5-\$49 per gallon for beer, \$49 per gallon for for spirits; 50% for oncentrate.
'n	Biscults	· 1957/·	\$2.4	£ 3.0	£1.0	¢1.8	350	Cabin biscuits banned Other biscuits 50%.
7	Cocos butter, powder, and chocolstes	1963	£28.0	£30°C	\$0.2	£25.0	450	Imports restricted. Cocoa powder and milk chocolate - Free Coooa butter and other chocolate and ice cream 50%.
·.	Wheat flour (2 mills)	1968 1969	\$3.5 }66.5 \$3.0 }	£10.0	62. 0	£7.5	500	Importation benned. \$0.04 per lb.

-									ı
	Products produced by the enterprise	Date establi- shed	Fixed Irvest (1970)	(1976)	Cost or imported (1970)	Value (Added (#111.8)	No. of employees (1970)	Tariff profection	!
9	Cane Sugar	1965/ 1967	#20.9 (including) (plantation) (equipment)	¥1.0	8 89	50. 02	3,000 (including planta- tion wor- kers	Sugar imposts restricted. Cane and Beet sugar. Duty free. Other sugar.) confectionery 50%.	
7.	Household Engmel-	1964	9 - 04	\$2.4	ø.8	£1.3	550	Danned. 50% duty.	
ថ	Wood Products (Lumber, Veneer/) (Plywood	1952/ 1969 (severl (establi- (sbments	£11.7 -}	£38.5	¢1.5	¢20.2	12,000	Inports kanned. 50% duty.	-
6	Petroleum (Refinery)(b)	1965	£23.5	(S)	<u>(4)</u>		380	Imports of petroleum products restricted. Crude oil 50% duty.Motor spirit 60.28% per gallon. Aviation fuel 60.45% per gallon.	
10.	Soap & Detergents	1966	#.9	65.5	44.0	95.0	006	Restricted. 50% Duty.	

TARE 1 (Combt)

	Predmote produced by the enterprise	M N N N N N N N N N N N N N N N N N N N	man land (and (iff)	(1) (1) (1) (1) (1) (1)	Seet of imported	Values Address (1970)	No. of (1970)	Fariff pretection (1973)
-1-	Pharmacouticals (2 main cetabli- ments & a for others)	3961	\$2.0	/4. 2	¥1.8	£2.3	1,000	Duty free.
22	Vehiole Assessing (3 main setablida (shæmis & a fer (others	38¢ .	*	\$11¢	6.0	6.0	9 8 0	Cars restricted. Duty on vehicles ranges from 10% to 200% for cars; and up to 25% for 1
Ę	Paints (1 main setablishment & 2 others)	6963 1963	65	£.4	£1.2	60.8	220	Restricted except pigments. 50% duty.
#	Oxygen & Acetyle	1963	, 6.0j	\$0.8	fb.07	12095	110	50% duty.
\$	Befory metobes	1956 1	10.4(ord- erinal (2.1 (1971)	\$1.8 (1971)	fo.5	. f1.2 (1971)	145 (1971)	Banned. Duty is \$2.45 per gross boxes

TABLE 1 (Contd)

			†				
Products produced by the enterprise	Date establia- snec	Pared large Parti. (1970)	(1978)	Cost of imported (1970) supplies (1911.8)	Valve Added (1970) (mill.#)	No of employees (1970)	Tariff protection
16. Candles	1968	£0.2	£0.5	f 0.3	60.2	20	Imports are banned.
17. Cement (2 facto- ries)	196 4	£4.0	418.0	69.0	8.5	430	Restricted. Clinker & Gypsum duty free Cement #0.29 out.
18. Class products (Bottles & other containers)	1965	(3.3	£1.6	\$0.4	£0.8	009	Bottles restricted. 50% duty.
19. Matchets (Cut- lacses)	1970	60. 6	%0.5 (estima- ted)	50. 2	80.2	100	Restricted. Duty Free.
20 laminium (ingots)	1967	¢ 130 (o)	\$45.0(d) (estima- ted)	Not available	Not available	1500	Unwrought aluminium & aluminium scrap: FREE, Aluminium powders, tubes & other structures: 50%.
21. Meetric cables & wires	1970	. O.	fo.5 (setimated	7 6.3	16. 2	8	Cables & wires up to 1100 Volts Restricted (Duty free)
•			ŧ				

TABLE 1 (Contd.)

Products produced by the enterprise	Date establi- shed	Fixed Investment (1970) (mill. #)	- Angual males (1970)	Cost of imported supplies (mill.f)	Value Added (1970) (mill. \$)	Ho. of employees (1970)	fariff protection (1973)
22. Steel rods (2 establish- ment)	1961 1989 1989	نه لاح.٦	0.24	£1.0	£0.8	450	Restricted. 20% duty.
23. Rubber products (outer covers) footweer, etc.	1968/	£11.0	7.7	£1.2	£3.2	700	Partially Restricted Covers & tubes for tractors - free For motor vehicles 45%. For tillyoles 50%.
24. Boats (Fishing & Pleasure)	198 198 198	6 1.0	61.5	* *Q	f.o.7	420	Tugs, dredgers and ships exceeding 100 gross tons — Duty free.
25. Textiles (vaious factories - spinn-ing, wearing, kmitting, printing)	1963 1970	40.0	\$50.00	\$24.0	\$19.5	4500	Clothing & some wover fabrics restricted. Rav cotton, jute & artificial fibres duty free, Ctaere 50%.
26. Paper Products (Paper conversion including printing)	1960 0761 (3	6.5	4.8	£.0	623	700	Paper bags & other containers banned. Newsprint & stationery - Free. Others: 50% duty.

EXPLANATION NOTES TO TABLE 1

(a) Righ value added is largely the result of high taxes of garettes.

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- services provided by the Tess Oil Refinery. Actual turnover is estimated Central Bareau of Statistics! data relate to the value of refining at \$43 million. $\widehat{\mathcal{Z}}$
- Excluding recent additional investment (of about \$25 million ?) (3)
- The rew raterials are brought in from outside and re-exported after processing (T)
- (e) Mostly value of production.
- The costs have been estimated. Many imported items were on Open General Licence in 1970. (F)

(8)

is prohibited or restricted because local supplies are considered to be adequate from the viewpoint of both quantity and quality. Goods on the "Restricted" list may be allowed in at the discretion of the Controller of Imports and Exports "Banned" and "Restricted" Imports: These relate to goods whose importation in special circumstances e.g. to supplement local supplies; importation for

TABLE 2: COMPOSITION OF GROSS DOMESTIC PRODUCT

	0561	1960	1970	1972	Growth Rates
24 6- 6- 10 14 16 16 16 16 16 16 16 16 16 16 16 16 16	M WELLION	motifie &	F million	io i i i i	1950-1960/1960-1970/1970-1972
(i) Agriculture (including fishing)	255.0	0*06†	6*455	685.0	Gorwth Rates of G.N.P. for the period 1955-1960 averaged
(ii) Mining & Querrylag	40.0	20.0	38.0 (40.0)(1)	38.0 (41.0)(1)	Growth rates of G.N.F. were 7.5% for 1960, 3.2% for 1961;
(iii) (a) Electricity, Gas & Steam	. 0-2	16.0	23.0		4.5% for 1966; 0.2 for 1965 (16.8% at current market prices
(b) Petroleum	•	ı	7.1(2)	8.0(2)	3.4% for 1969; 5% for 1970.
(1+) Manufacturing	108.0	200*0	340.0 (400)(1)	570.0 (436.0)1) (Provisional)	- 27
(v) Others (including construction)	110.0	200*0	285.0	234.0	
Total G.D.P.	520.0 (estimated)	0:956	1,248.0 (1310)(1)	1,360 (1429)(1)	
G.D.P. (U.S. dollars) s-	350	096	1300	1350	

4.2 million 6.7 million 9.0 million 3 3 13. G.D.P. per captta (U.A.D) Population

(1) Including turnover of enterprises employing less than 30 persons.

(2) Central Bureau of Statistics data relate to the value of refining sefvices provided by the Tena Oil Befinery. Actual turnsver is estimated at \$40 million for 1970.

				5	(in million Cedis)	(atb				
		1950	1955	1959	1960	28 6	1969	1970	1972	(Jan. June) (provisional)
1. (£) (±1)	1. (1) EXPORTS (11) IMPORTS	£154.8 £ 96.3	£191.0 \$175.8	\$226.1 \$226.0	\$232.0	£226.9 £320.0	£397.7 £354.4	\$397.7 \$467.4 \$354.4 \$419.0	\$569.9 \$395.9	\$386.5 \$241.8
(111)	TRADE BA- LANCE	+ \$ 58.5 + \$ 15.2	+ \$ 15.2	+ \$ 0.7	0°12 \$-	-4 23.1	+ \$43.3	+¢ 48.4	+ \$43.3 +\$ 48.4 +\$75.40	+ \$144.7
2. (i)	EXPORTS OF MAINTEACTURED GOODS	(Butime- ted) \$7,000,000	•		\$15,000,000			980, 300, 000	8	
(11)	INFORTS OF MANUFACTURED GOODS	85,000,000			211,000,000			360,000,036	90	
	EXCELICE RATES CEDI ECUIVALENT OF ONE U.S. DOL	EST EST DOLLAR		₹ ¥1	1 U.S. 6 is about fo.80	9		1 U.S. 8.	1 7.8.8 is \$7.15	" (₹
								4)01		

Sources: (a) External Trade Statistics, Central Bureau of Statistics - December, 1960, Dec. 1970, June, 1972;

(b) Economic Survey, 1960 (page 83); Economic Survey, 1969 (Pages 34 - 35). (c) Central Bureau of Statistics - "Statistical Hewsletter" - 1972/1973.

	·	4 O t U M	At			(1) 1950 JUKBER EFLOTEE	(2) 1960 zurder Ekployed	(3) 1970 Muber Beponed	(4) 1972 RUISER EPLOYID (Provisional)
13	1	erriculture and Fishing	ishing	:	•	30,000	45,000	(9)000*0*	48,000(7)
(11)		Mining and Duarying	1n.	:	•	20,000	26,000	26,0'10	SS, 200
(111)		Electricity, Gus and Steam	and St	. 65	•	000,6	14,000	\$6, JOO	16,500
(i.v.)		Petroleum	•	:	:	1	ı	390	345
(E)		Nanufucturin s	:	• .	•	16,000 (140,000)(5)	25,000 (254,000)(5)	55,000 (481,000(5)	64,000 (562,000)(5)
(vi)	Othe	(vi) Other Sector:-							•
	(a)	Transport	:	:	•	20,000	30,000	39,000	38,500
	<u>(e</u>	Construction	ë	:	;	34,000	61,000	62,000	40,000(3)
	(°)	Comerce	:	:		23,000	34,000	36,000	36,500
	(ū)	Services	:	:	•	50,000	92,000	123,000	133,050
(M)	(vii) Total:-	1:-				202,000	333,000 (850,000)(5)	402,000	402,000 (5)

Estimates from unpublished manuscript ("Industrial Development of Ghana" - E. Mizfe-Lanor) Source

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Sources: Central Bureau of Statistics aconomic Survey, 1960, 1961, 1962. ۲.

Sources: Central Bureau of Statistics Economic Survey, 1969; aurterly Digest of Statistics 370/71; Hintutry of Industries ... inual Returns. ÷

Sources: Central Bureau of Statistics Juarterly Digest of Statistics; Ministry of Industries annual Returns; - K. Mafe-annor ("Industrial Development of Chane" (Unpublished) -}

Including persons employed in enterprises employing less than 10 persons (NOTD: - Coveruge of Central Bureau of Statistics data excludes enterprises with less than 10 employees) in all cases, and in several cases also excludes those employing less than 30 persons). 5

The increase of 1972 over 1970/71 is the result of the current policy of "Operation Feed Yourself" was the result of the full in the output of the level coment factories in 1972/73. There was a sharp drop in the labour force following the aliens Compliance Order, 1970. ن د جا ق

### Total Inter-	١.) 0561	1950 (Estimed)	(1962 Cen	1960 (1962 Industrial Census)	4	(2)0261
######################################			Enterprises	Total Employed	Enter- prises	$ extbf{Tot}_{\Omega(1)}$	inter- erises	Total (1) Ampleved
(ii) Total Employed 30 10,000 32,365 15.00 (ii) Total Employed 1,000 1,847 20.00 (iii) Total Employed 21,000 21,000 35,063 120,000 (iii) Total Employed 20,000 186,759 100,000 186,759 100,000 186,759 100,000 186,759 100,000 186,759 100,000 186,759 100,000 186,759 100,000 186,759 100,000 186,759 100,000 186,759 100,000 186,759 100,000 186,759 100,000 186,759 100,000 186,759 100,000 186,759 100,000 186,759 100,000 186,750 100,000 186,750 100,000 186,750 123,70 100,000 186,750 100,000 186,750 100,000 186,750 100,000 186,750 100,000 186,750 100,000 186,750 123,70 123,70 123,70 100,000 186,750 123,70 123,70 100,000 186,750 123,70	ri							
Total employed 10,000 52,365 .		No. of enterprises	ዶ	•	011	ı	Ci IG	1
1,		Total employed	1 ·	30,000	ı	32,865	,	44,000(3)
(i) Fo. of enterprises 1,000 - 1,847 - 5.200 (ii) Total employed 21,000 - 35,063 - 120,000 (ii) No. of enterprises 50,000 - 100,000 - 120,000 (ii) Total No. of enterprises 51,030 - 123,247 - 123,247 Total No. of porsons employed - 140,000 - 254,247 - 123,247	2.					•		
(ii) Total employed	-	:	000	1	1,847	1	୍ଷୟ ି	1.
### Total No. of enterprises 50,000 - 100,000 - 120,000 120,000 120,000 120,000 120,000 120,000 120,000 120,000 123,00		Total employed	1	21,000	, :	35,063	1	೨೦೦*೭9
(1) No. of enterprises 50,000 100,000 120,000 (11) Total Employed 100,000 186,299 123,50 Total No. of enterprises 51,030 254,247 123,50 Total No. of persons employed 254,247 254,247 -	~							-
Total employed - 186,299 - 186,299 - 1 No. of enterprises - 51,030 - 140,000 - 254,247 - 123,50		10 PARSONS:	20.00		. 93,160	l	120,030	3.
103°cd - 95,117 - 123,50		Total employed	1	100,000	1	186,299	1	000,154
123,50 - 95,117 - 123,50 - 124,247 - 140,000 - 254,247 -								
loyed - 254,247 -	Í	Total No. of enterprises	51,030	1	5117	1	123, 50	1
		Total No. of persons employed	1	340,000	1	254,247	1	562,000

⁽¹⁾ Including self-employed proprietors.

The CBS Directory of Industrial Enterprises 1969 omitted the Table on classification by size.
The 1970 dute are the based on (a) CBF data for enterprises employing 30 persons or more;
(b) Ministry of Industries Returns and (c) Unpublished memiscript (K. Fiefe-Annor - "Industrial Dev. in Ghana"). (2)

^(?) Estimated on besis of "Industrial Statistics 1969" Table X1, and unpublished MS3.

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THE "CREASING INPORTANCE OF INTERNEDIAL" & CAPITAL GOODS INDUSTRIES

	19	1959	1962		1969	69
	Value of output (million Cedis)	Proportion of total industrial production	Value of output (million Cedis)	Proportion of total industrial production	Value of Proportion output of total (million Cedis) industrial production	Proportion of total industrial production
Intermediate goods						
(Containers & Packaging Materials, Rubber & Chanical products, Brilding & construction materials.)	£2.6	9.59	8.8	10.9%	0.65%	22.5%
Capital Goods						
(Basic metal goods & Structures, Machinery, Electrical Machinery & Equipment, Transport		Ä) 0 0
Equipment.)		\$	2	4	423.2	ያ አስ 2 0
Total:-	777	10.7%	\$17.8	25%	¢82.2	31%
						-

Sourcest- Central Bureau of Statistics Beencate Survey, 1960, 1964 and 1945. Industrial Statistics, 1962 - 64, 1969.

Cable 7. Contribution of industries supplying construction and building materials.

	1956	1960	1969	1070 (75.11
(a) Gross Domestic Carital				1970 Lastimated
Formation at current prices	£70.4 mm.	£117.2 ma.	\$161.1 mm.	£165.0 an.
(b) Total value of materials used	£34.8 mn.	58.9 mn.	6 0 P	000
			• I'm:	x 130°0 mm.
(c) Of which local materials				
represent		3,50	809	65%
				•

NOTE:

Materials content in building and other construction works in Ghana is between 50% and 60%.

		(million Cedis)	1902 (million Cedis)	1962 1969 (million Cedis)	1970 (Estimated) (million Codis)
4.	A. Value Added (Esmufacturing)	(£30.8)(5)	(£56.0) {2}	\$140.0 (3) (\$190.0 (5)	\$165.0 (\$224.0)(5)
Å		1950 (Estimated)	1960	1970	1972 (Estimate.)
	Orosa Domestic Froduct (million Cedis)	\$520.0 (4)	\$956.0(4)	\$1248.0(4) (1310.0(5)	\$1360.3(2) (1429.6(5)
	GIP (million oedis)	£108.0 (5)	\$200.0 (\$235.0(5)	\$340.0 (\$400.0(5)	\$370.0 (\$436.0(5)
	Spercentage)	20.7%	21.0%	29°C%	30.0%
E	Central Bureau of Statistics,	Ecomonic Surve, 1960 (Pages 34-35) - Based on salaries aneges. Industrial Statistics 1962-64 (Table 2) - Census of enterprises employing	2-64 (Table 2) -	d on salaries ar . Cersus of enter-	"Pges. rises employing
© 3	Central Bureau of Statistics, 3C persons plus.	n 1965	1969 (Table 3) -	E	- 33
. 5	Including contra (Sources (a) (b)	ibution of enterprises employing less than 30 persons Unpublished manuscript, K. Wisfe-Annor - "Industrial Development of Ghana") Ghana Covernment One-Year Development Plan, 1970/7: - Page 76).	m 30 persons "Industrial Dev m, 1970/7: — Pa	elopment of Ghana ge 76).	(

THERE 9. VILIT OF GROSS MANDE CREATE OUTSON IN CURRENT PRICES CL. SSIFILD BY SIZE OF ENTHERESE

•	1950	1950 (Estimated)	19	1962	961	02/5961
SIZE OF ENTERPRISE	Output million Cedis	Fercentinge	Output million Cedis	Fercentige	Output million Cedis	Percentuge
Manufacturing enterprise employing more than 160 persons (Mo. employed in 1962 - 32,885)	\$25.0	23,	\$59.00 (2) (Per Capitu cutput) \$1,800	, <u>%</u>	\$ 23 8. 6 (2)	59.75
Munufacturing enterprise employing 10 - 99 persons (40.employed in 1962 - 35,063.	\$ 31.0	29%	\$60.6 (Fer Capita output) \$1,700 (3)	25.5%	£43.4	10.84 64
(Minufacturing enterprise (1) employing less than 10 persons (No. employed in 1962 - 186,299)	\$52.0 ⁽⁴⁾	₹8;	#115.4(3) (Per cupits output) #620	49.5;.	0.0	29.5%
Total:-	\$108.0(4)	100x	\$235,0(4)	7001	£100.04)	130%

Central Bureau of Statistics data relate to only enturprises employing 30 persons or more. Figures in this Table include contribution of entergrises employing less than 30 persons.

Central Bureau of Statistics Industrial Statistics, 1962 -64 (Table 33); and 1969 (Table 29). 5

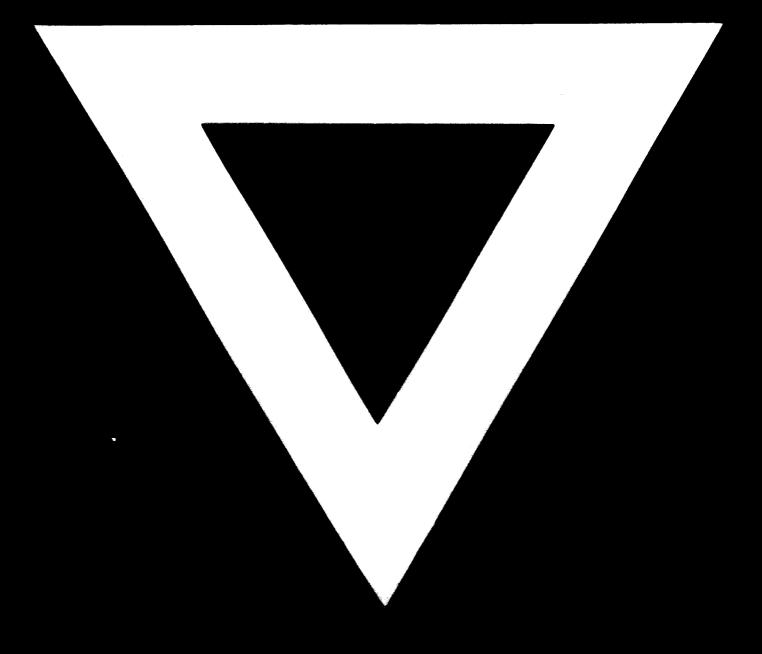
enterprises to be between 150, and 200% at for the smaller enterprises. On that basis, per or its output for enterprises employing less than 10 persons could be estimated at between \$350 and \$1,000 Central Burecu of Statistics's preliminary calculations estimated per capita output for medium-rired

Based on (a) Unpublished M.55 (Liafe-Innor - Industrial Dev. in Chana); and (b) Ghana Cowerment One-Year Development Plan 1970/71, page 76.

Type of ownership	Output (million Cedis) Percentage	Percentage
(a) State-owned	648.0	1
(b) Private (including oc-operatives)	£296.0°	74.8
(c) Joint State/Private	0.95%	7.4%
Total	•0°00 1/3	100%

Based on Central Bureau of Statistics "Industrial Statistics 1969", with data adjusted to include output of enterprises employing less than 30 persons, using information from:- (a) Unpublished MSS, K. Wiafe-Annor - 'Industrial Development in Ghana."

(b) Ghana Government One-Year Development Plan, 1970/71, page 76;



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