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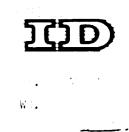
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United Nations Industrial Development Organization

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^{*} Turnelon, Scotts offricaine distudentechniques (GMACTEC), Disco, Senegal.

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INTRODUCTION

The United Nations Industrial Development Organization (UNIDO) is at present giving considerable attention to self-help programmes for small-scale industry in the developing countries. A seminar has been scheduled on the subject to examine the entire range of problems with a view to deciding what should be done about them.

The term "self-help" covers forms of assistance other than those provided by Governments. Among other things, it includes the activities of firms of engineering or management consultants in the promotion of small-scale industry. The role and impact of these private companies in this area will therefore be one of the subjects to be discussed at the seminar.

The purpose of this brief paper is to indicate in general terms the role these firms of consultants can play in the efforts of the developing countries to promote small-scale industry. Such organizations include, of course, both foreign and domestic firms; our remarks will be concerned with the latter only. Specifically, the discussion involves private firms of consultants established in developing countries with domestic capital and personnel.

In these countries, small-scale industry consists of production units with a low level of investment which use unsophisticated techniques. In peneral, they are run by icond managers and employ few workers. General toristically, they produce consumer goods mainly from local raw materials and mainly for the home market.

The approach set forth in this paper may be an original one in that it stems from the thinking of a Senegalese in charge of a firm of consultants which has often dealt with the problems of industry.

The analysis is confined to the experience of a few Fronch-speaking nations in west Africa, and thus it can certainly not claim to do on all aspects of the problem.

contain of the points raised are specific to a given geographical area and a particular set of circumstances. Within this framework, an examination will be made not only of the role of firms of consultants as defined above, but also of their characteristics and their status.

- I. THE COLD PRINT OF ENGLISHERING OF MANAGEMENT CONFULNATES
- (1) For the sake of convenience, the term "firms of consultants" will be used without distinction in this report, in preference to engineering or management consultants, etc.
- (3) The role of these firs is to assist the Severaments of the developing countries to develop their national economies. Within this general purpose, there are two aspects to their work. The first relates to the efforts of the authorities regarding the setting up of the country's productive system; the second relates to industrial entrepreneurs and financing institutions.

A. Pole in relation to the Government

The so-called under-developed countries are continually faced with the following hard facts:

A population with a growing need for a variety of consumer goods;

The nodessity of satisfying this was at the lowest possible cost in foreign currency and without any serious loss of customs revenue;

The need to add maximum value to basis commodities through industrialization, which makes it possible to substitute nationally produced goods for imports;

The constant need to check unemployment by the creation of labour-intensive infustrios, using manpower which has to be trained to meet the requirements of the acctor;

The small number of indigenous university graduates;

The scurcity of African entreproneurs who have the professional qualifications required of a saturble of at:

The failure to follow up theoretical research by applying it and making appropriate financial arrangements.

The essential way to solve these problems is to take stock of the needs and then marshal the means for the attainment of the development objective - that is, development planning. However, to make possible this kind of planning and carry it forward, there is a need for a certain amount of thinking, study and research.

well aware of the importance of study and research as a prerequisite for any course of action, the new countries have established their own national study institutes or offices. Among these bodies, some make it their primary goal to sist and promote the country's small-scale enterprises and industry. However, the magnitude of the problems confronting these national agencies is such that they must inevitably rely on private firms of consultants for specific tasks. This is in fact the first aspect of the role of such firms - in relation to the State. The function they perform is unquestionably of advantage to their countries.

One of the reasons is that, in the developing countries of Africa, indigenous personnel trained in schools in the developed nations are more likely to have a better grasp of all the socio-psychological aspects inherent in any project carried out as part of a well-balanced development programme. For while technology may be universal, its application requires an understanding of the many factors specific to a given geographic area, factors which quite often escape the notice of foreign engineers and other experts.

The paucity of data for certain areas of activity makes it necessary to go out into the field and collect the statistical information essential for any industrial study. This approach, particularly in Africa, is only possible or likely to be useful if the persons responsible satisfy certain requirements:

Thorough knowledge of the people of the area, who traditionally offer stron; resistance to any attempts to penetrate their society;

Ingenuity at devising methods of inquiry, sometimes breaking away from modern techniques, which may be too rationalistic;

Identifiability as one of the local population on the basis of race, dress, language, character and attitudes;

Ability to assess the value of information received from the local population;

Ability to anapt easily to local conditions.

The role of African consultants is thus closely linked to the policies of the State regarding small-scale and medium-scale enterprises. Their impact is felt in the following areas:

1. Preparation of industrial studies

Market studies. Before any enterprise can be launched, the market must be analysed, as the determining factor both for the size of the enterprise and for its operating conditions and profitability.

Studies of industrial processes so as to permit an appropriate solection of equipment well suited to local conditions. In this should be added that African countries have techniques of their own which African consultants should study with a view to applying them scientifically to industrial production.

E Planning of projects

Technical study of the appropriate industrial facilities for the industry in question:

Supervision of infrastructure and equipment installation;
Assistance in the development of prototypes.

These techniques include the lost-wax process in the Upper Volta, the indigo dyeing of fabrics and the method for melting iron ore.

3. Industrial promotion assistance

Assistance in research programmes for the development of small-scale industry;

Market studies;

Study and establishment of industrial zones;

Organization of training methods and methods for assisting existing industry.

This role of firms of consultants in relation to the State is not limited to the range of activities described above, because their staff can be a useful source of opinion in the developing countries. The experience these people gain described their studies and research means that they have a contribution to make at conferences and seminars. In addition, they function as channels of economic and technical information, which may help in evolving the right approach to development problems.

B. Role in relation to entrepreneurs and financing institutions

Indigenous entrepreneurs wishing to undertake industrial projects suffer from almost all the problems lieted below:

Lack of capital: this is generally the most important factor responsible for the slow growth of small-scale industry;

Lack of professional skills: this is due to the fact that before independence industrialiete were generally foreigners. Very often the industrial entrepreneur in a developing country is an artisan or a "complete stranger" in professional terms.

This last factor, which may be broadly defined an the absence of an industrial tradition, subsumes all the rest, which are the following:

Lack of organisation;

Lack of specifically industrial methods of management. Profits and products are not identified and considered carefully enough in relation to a plan of action;

Lack of a business mentality. The idea of considering the business apart from its owner is quite foreign to the entrepreneur.

Intentity, given a small arount of initial help, the entropressure succeeds in setting up his business and patting it running in a satisfiction ranger. An soon as it gots hato its straige, however, symptoms of incline begin to appear. Therefore a symptoms, lack of working capitals the nest obvious. This hads to all nature of difficulties, which altiputely result in the outerprise going to pieces:

The staff is core less and loss motivated;
The equipment falls into disuse;
The publity and level of production deteriorate;
Sustances to elsewhere.

These danger signals, which may so unnoticed at first, are usually brought on by the entrepreneur himself. The expansion of his business gives him a source of finds, which lands him to divert money away from the business to satisfy his own personal desires.

This pattern, which is a vory common one in Africa, seems to be due in part to the factors cited above, which are directly connected with the man at the head of the interprise. There are, however, other reasons which combine with them, namely:

There is a tendency for aid to be discontinued as soon as the firm has been established. Where such assistance does continue, it is not accompanied by the kind of conditions that would continue to give the entrepreneur the same motivation as moved him to establish the business in the first place;

Insuperable difficulties in dealing with financing institutions, which are governed by strict regulations, occasionally (let us be honest) out of tune with the legitimate goals of national industrial promotion.

Generally, even in the developed countries, firms of consultants act as advisers to industrialists and entreprenours on a continuing basis. This same service is also provided by similar agencies in the developing countries, and particularly in the fall wine areas:

Organizational advice;

Management advice:

Preparation of the documents required to apply for bank loans; Market studies;

Industrial expertise.

In relation to financing institutions, the firms of consultants also help in preparing the paper work required for all decisions on financing and in supervising compliance with the terms of the credit extended.

To sum up, the role of firms of consultants in the promotion of small-scale industry in the developing countries can be very extensive. It should cover the full range of surveys and planning required for the establishment of these industries and their rational operation within a context of co-ordinated development. As matters actually stand, there are a number of stumbling-blocks which continue to limit their role, for reasons which are a reflection of their present status.

II. THE PROBRET STATUS OF APRICAL PINES OF COMSULEARTS

_ & _

- 1. The establishment of firms of consultants in the west African region dates back to the 1 ((s that is, about the time these nations achieved independence. There are some ten such offices to be found in such countries as the Ivory Coast, Togo and
- In general, these firms are small in eire, with three or four graduates on their staff. In the older firms, the staff may have gained a ough experience to enable these establishments to stabilise their internal organisation.
- The firms may be either multidisciplinary or specialized. I the first case, they have staff trained in a variety of fields, whose professional background has been gained through work in a wide range of situations. In the second case, they specialize in architecture, town planning or sociological problems. In the geographical region with which we are concerned, they provide near-total coverage of most development activities, specializing particularly in industrialization, town planning and housing.
- 4. For the most part, however, their involvement is quite limited and, despite their promotional efforts, full use is not being made of their services.
- When one considers the problems these firms face, it is clear that they are connected with the attitude of the State towards them. Its attitude partially infl ences that of entrepreneurs and financing institutions.

In order of importance, the firms' major clients can be divided into five / roupe:

The State

Ensentially, this heart the ministries responsible for planning and economic development, and the following technical departments:

^{3/} See amex I.

Industry, e erg., ater management; Public works, to m plansing, housing; Commerce, distribution, transport; Rural developert.

Mational promotio ...titutions

Poblic enterpri e.

Energy and stor; Transport; Cottage industry; Credit institutions.

Private enterpri. e

Private banks; Indigenous entrepreneurs and artisans.

External organi ations

with particular reference to the industrial sector, the tasks we dertaken by domestic firms of consultants cover the following fields:

Surveys and statistics;

Studies of industrial processes and production equipment;

Study and evaluation of production factors;

Study and development of prototypes;

Technical studies relating to industrial and residential buildings;

Preparation of technical and administrative documentation for invitations to sub-it tenders:

Examination of tenders.

A number of studies carried out by such firms are listed in surex II.

The situation of firms of consultants in the west African countries is by and large characterized by the following factors:

Small staffs, resulting in a lack of confidence in these first on the part of government officials. In nost cases, this lack of confidence leads to a bias in fevour of the large first.

Other administrative officials may display somewhat more confidence in the African firms, but for safety's sake they insint on programmes in the form of references for studies made in the past.

The alcende of legislation or legislative reform regarding the African fire is one of the root causes of their difficulties. This I is lative gap feeds the prejudices of the eliminative intention, reinforcing their persistent depand for year teed.

Often the pre-c t local reached by the African first, legislative action could replant a the situation. With partic lar reference to the inductrial nector, the one was that hight be considered include, as any others, the followings

Approval of there fire by the linte a evaluate agents or autionally it would traitent

instead on a lithing of the firm on all major industrial of dies within their fields of mospetomes;

Systematic or ricipation in all studies fi a med from abroad

To additio, the feithers of private entrerme sours without capital to take the services of the consultants is another characteristic of the situation. Unicepress we are far from convinced of the efficiency of the recently catablished African firms. Specifically, the indigenous entrepression shows great a challegical resistance for the following reasons:

His fail: we to understand the need for study or advice before establishing his business;

His lack of funds, which discourages him from making an investment le often believes till prove a loss.

There are also firm of al difficulties in the way of a decision by the entrepreseur to have a study carried out, since, in most cases, his funds are relatively limited in relation to the cost of the study. On more than one occasion it has happened that a local firm of consultants has accepted a study assignment and has then had to wait for a bank loan to be suthorized before it could be paid. This practice, which is equivalent to a prefinancing operation by the firm, is in no case legisable, for although it may guarantee results, it reduces the commitment of the entrepreneur, who assumes no risk, and additionally it strains the already limited financial capacity of the firm, which faces the risk of not being paid if the bank lean and entrepreneur.

- 8. At the present time, the banks do not provide entrepreneur, with money to finance studies, and still less do they assist firm of consistents (with a fer exceptions). The exceptional cross, however, are rare, because the laste come up against the interests of large foreign corporations, which are constines involved in the bigger firms of even limits.
- In their dealism with international organizations the serly established African fires of consultants face problems because the organizations require guarantees in the form of references and insint on individual missions by specialised a pertu-
- of the need to furnish references, which new firms case of always by the result is a vicious circle. For the time being, they are persevering despite the unfavourable cli ste. In the long term, their iteration will have to be given greater consideration by govern ent authorities and international organizations. Even now, seasures are being taken in certain construction which, while not wholly official, are a step towards improving their position. In the end, the continued efforts of these firms will result in action to further their development. The appeal and expansion of these African-run research firms is one of the next essential factors in the promotion of indigenous small-scale industry.

III. CONDITIONS FOR THE DEVELOPMENT OF

- 1. The develope d of small-scale industry must be based on a planting policy which looks to the assumption of control over this sector by sationals of the country.
- The levelopment of critical companies depends on this planning policy. Private firm of computants such therefore be regarded as national enterprises which have an i pact on the country's economy, and as such they are critical to a private categories of privileges which have been extended to other profemious by appropriate legislation. The privileges in mention follow from the observations made above regarding the meed for special legislation.
- 3. Shall-scale industry constitutes a particular area where these privileges might lead to effective results by strengthening co-speration bet econsational proportion heatitutions and private firms of consultants.

This kind of co-operation is growing up in a number of developing constring. It takes various forus:

tudy contracts negotiated on a case-by-case basis with intern 1 figure is arranged by the promotion institution for the studies to be subcontracted;

A reserval annual contract, making it easy for the promotion institution to fi ance annual budgets under which local consultants can be engaged for previously defined projects.

The example set by these countries with regard to co-operation between promotion institutions and mational firms of consultants might profitably be followed elsewhere, to the degree that the same possibilities for financing exist.

In general, therefore, the institutions responsible for the promotion of small-scale industry can co-operate with local fir a of consultants on a very broad footing through the following measures:

Systematic subcontracting of studies to indigenous consultants under annual general agreements;

Use of local consultants in place of foreign experts in connexion with interactional assistance. For some projects, the familiarity of these firms with the local situation, coupled with their professional expertise, provides at least as good a guarantee of results as foreign experts can offer.

Both these forms of ec-operation can be financed either from the premotion institution's internal sources or externally through foreign aid erganisations. Horsever, this co-operation can provide a basis for other relationships between the premotion institution and the local firm of consultants, such as, for example:

Exchange of information and documentation;

Joint participation in training programmes and national activities to promote small-scale industry;

Joint examination of diagnostic surveys and evaluation reports on the development of small-scale industry.

In most cases, the few existing indigenous small-scale industries are managed by merchants or fermer workers in technical or business fields, and only marely by executives. In practice, as already noted, the financial resources of these establish ents are very limited, and for this reason there is no possibility of their seeking the services of consultants.

As a rule, the development of an industrial enterprise depends on the setivation of the man in charge, who is unlikely to see any advantage in seeking the services of consultants. These two obstacles - lack of financial nears and lack of netivation - could probably be overcome if certain conditions were not. One possibility might be the adoption by the pro-otion institutions of measures requiring the heads of small-scale industrial enterprises to satisfy certain conditions in order to become eligible for bank leans. The enforcement of these measures could be supervised by a body affiliated to the banks and connected with the indigenous firms of consultants, which would provide it with the information to base its decisions on. The agency in question would be a collective agency of the industrialists them—selves, under the supervision of the banks and presection institutions.

Under this system, local firms of consultants could be in a tronger position in offering their advisory services to the content. The results of their studies would have to be passed on to the supervising agency. In some cases, these services right be furnished free or for a serely nominal charge.

Despite all these efforts, however, the financial weakness of small-scale industrial enterprises will continue to be an inhibiting factor as long as the State fails to grant them subsidies. Such subsidies might be strengthened by external contributions.

- (. Participation in international organizations study projects. In selecting experts for programmes of aid to small-scale industry, the assistance agencies generally call on individual specialists in this field. The individual nature of this selection process might well be reconsidered with a view to a greater involvement of judigenous firms of consultants.
- Consultants in the developing countries would profit in their development from the continuing source of training to be found in co-operation with foreign firms of a specialized nature. Such co-operation (which is not to be confused with subcontracting) is possible only if the organizations supplying the aid and the countries receiving it make it a rule that indigenous consultants are to be systematically involved in all major projects.

The example of one African country might be instructive in this connexion.

The authorities sent a circular to the different ministerial departments recommending the following measures:

Systematic engagement of indigenous firms of consultants on an exclusive basis for socio-economic studies financed from demestic funds;

Inclusion of a clause calling for subcontracting to desertic fires in contracts concluded with foreign consultants.

This clear trend towards receiving a certain range of activities for descrite firms in thus in harmony with the idea developed in section ? of this chapter.

Onch subcontracting is to be understood as sensity a two-way archa ge of essence and kno - he between the dosestic sudforeign firm of commultants in a project to which each party makes its orn appropriate contribution. In other words, were national firm does work on the it must be regarded as swing a sensine role to play and its contribution must be integrated in practice with that of the foreign firm.

The the interactional standpoint, fire of co-miltuate can make themselves competitive by rooling their resources. By rectings at conference, visite and other arranges enter for exchanging experience, they can extreme the ties between them. Such closer ties are a fundamental preremitaite for undertaking major study projects. It might even be necesible to set in a limitional firm, which would have a useful function to perform in Africa.

There are many factor to encourage the small firms now operation to band together in a larger body:

Lack of capacity;

Insufficient financial resources;

Limitations of mational markets, which cannot alone stimulate their expansion:

Diversity in their areas of expertise, resulting in a natural oc pler entarity between them:

Inability to commete for the more important African study projects, which are generally awarded to foreign firms;

A more favourable position vis-à-vis cortain international organisations.

" CONCLUSIONS

- the African countries, where it is through the encouragement of this cector that it ill be receible for African industry to develop. Thus, in receipt the question of celf-help for small-scale industry, UNIDO has rightly numbed to the notestial role of firms of commutants in this area. Standing in the way of the development both of small-scale industry and the newly established rational firms of consultants are a great many problems, which this paper has noweht to identify.
- bear the kind of non-scaderic knowledge which enables them

 of studies that clude their foreign counterparts.

 For this reason, their notestial role in the presention of small-coals industry is of fundar estal importance, in relation both to the policy of the national authorities in this sector and to private enterprise and financing institutions.
- 3. Peopite their efforts, they come up against a number of difficulties. There are domestic difficulties in the African countries, where nort officials show a preference for fereign firms, so that they have none guarantee of success when the state of the provides also exist at the international level, where the practice of recruiting experte individually and the insistence on references, of which African firms, being recently established, use only supply a few, her these firms from empiderations.
- 4. As these problems are evereese both demostically and internationally, the development of African firms of consultants will give greater meaning to melf-help programmes for small-scale industry. The development of these institutions is one of the conditions for industrial growth in Africa.

Annex I

SOME PIR SOF SCHOOLSERANTS IN WISH AFRICA

L'ant Genet

SIGT - scolfié Iveirienne de Contrêle de Travaux et del'apertions

BB878 - Secrété Iverrience de Section d'Et des et de Serviese

SIFFRC - Secient Ivetrienne d'Entreprises et de Premeties

SPAU - Bureau d'Ptudes d'Architecture et d'Urbaniene

- Atolier d'Architecture et d'Urbanisme

316 Yangra - Architecture

Janual

CREATIVE - Section Africaine d'Pludes Techniques

ARC - Afrique Rochesche Conseil

SASTR - Société Africaine de Gaspération Reconstique Régionale

- Cohinet d'Moules et de Rocharches de Devaloppese t

Amer II

JONE STUDIES CARRIED JUT BY AFRICAN

Feasibility study for a bread yeast production unit	Ivory Coast	Smistry of Planning
Study a the conditions for the in- dustrial development of indigo dyeans	Ivory Coast	Ministry of Planning
conomic and financial study for a tourist develorment	Sanagal	Private
Peasibility stud, for a soft-drink last	Senegal	Rinistry of Planning
Profitability study for an ice chain to serve ten cities	Semegel	Ministry of Planning
Technical feasibility study for the series production of office furniture. Development of prototypes	Ivory Coast	Ministry of Planning OPLI
Technical, economic and financial study for a plantic feetweer in-	Samuel	Poreign private
Profitability stud for a goods transport enterprise. Starting of operations	Annegel	Descripe private

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