



TOGETHER
for a sustainable future

OCCASION

This publication has been made available to the public on the occasion of the 50th anniversary of the United Nations Industrial Development Organisation.



TOGETHER
for a sustainable future

DISCLAIMER

This document has been produced without formal United Nations editing. The designations employed and the presentation of the material in this document do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations Industrial Development Organization (UNIDO) concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries, or its economic system or degree of development. Designations such as "developed", "industrialized" and "developing" are intended for statistical convenience and do not necessarily express a judgment about the stage reached by a particular country or area in the development process. Mention of firm names or commercial products does not constitute an endorsement by UNIDO.

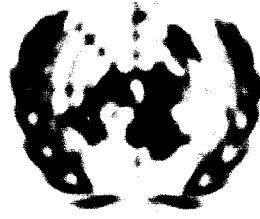
FAIR USE POLICY

Any part of this publication may be quoted and referenced for educational and research purposes without additional permission from UNIDO. However, those who make use of quoting and referencing this publication are requested to follow the Fair Use Policy of giving due credit to UNIDO.

CONTACT

Please contact publications@unido.org for further information concerning UNIDO publications.

For more information about UNIDO, please visit us at www.unido.org



D00146

10D

DET 2
LFB

DECEMBER 11/10
ADT, 1968

SECRET CLASSIFICATION

~~United Nations Economic Commission for Europe~~
~~United Nations Economic and Social Office in Beirut~~

Report from Beirut on the new system of ~~United Nations~~
operations in the countries of the Middle East

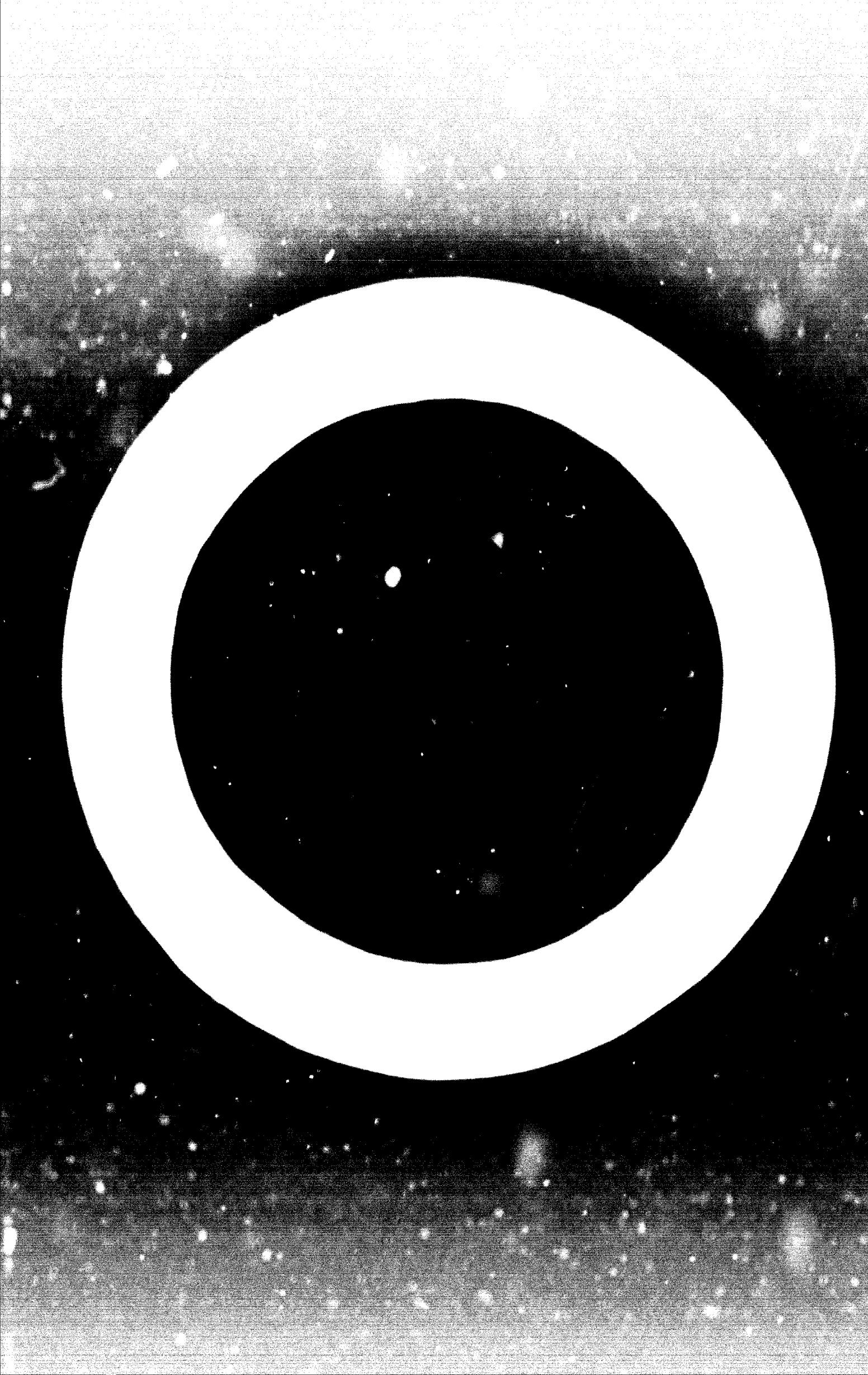
to ADT, Lebanon, 11-18 December 1968

Document 3

~~INITIALS OF THE PULLER~~
~~INITIALS OF THE PULLER~~

44-00-070

It is regretted that some of the pages in the original or the copy of this report may not be up to the proper legibility standards, even though the best possible copy was used for preparing the master file.





UNIDO

REPORT NO.
0001-001

BY/COPY 2/10/2
April 1987

CONFIDENTIAL - UNCLASSIFIED

United Nations Industrial Development Organization

**INTER-INSTITUTIONAL PREPARATION IN TECHNICAL
SERVICES AND FACILITATION FOR
MULTI-SITE INDUSTRIES**

Report No. 1
1987

[REDACTED]

[REDACTED]

Presented by

The Multi-Site Industry Section
United Nations Industrial Development Organization

~~TABLE OF CONTENTS~~

INTRODUCTION	1
Definition of Entrepreneurship	1
Studies and services for small-scale industries.....	1
PRE-INVESTMENT STUDIES AND SERVICES	3
Objectives	3
Types of studies required	3
SCOPE OF ANALYSIS	9
(a) Identifying Candidate Industries	9
(b) Demand Estimation	9
(c) Location Analysis	9
(d) Choice of Site, Processes and Technology	9
(e) Profitability Analysis	9
(f) Other Possibility Criteria	9
MARKET, QUALITY AND COST - THE CHARACTERISTICS OF PROPOSED SMALL INDUSTRY	9
MARKET REPORT TO IDENTIFY THE MARKET	9
CHARACTERISTICS OF THE INVESTMENT PROJECT	9
STUDY OF FINANCIAL	9
APPENDIX I - TABLE FOR AN INDIVIDUAL POSSIBILITY STUDY	9
APPENDIX II - TABLE FOR A MARKET STUDY	9
APPENDIX III - TABLE FOR A CRAFTS PROJECT	9
APPENDIX IV - TABLE FOR A SMALL BUSINESS OR AN INDIVIDUAL OR A GROUP	9
APPENDIX V - TABLE FOR AN INDIVIDUAL MARKET PROFITABILITY STUDY	9

PROGRESSION OF ENTREPRENEURSHIP AND ASSISTANCE TO SMALL INDUSTRIALISATION AT THE PRE-INVESTMENT STAGE

INTRODUCTION

Motivation of Entrepreneurs

The inadequacy and shortage the lack of domestic entrepreneurial initiative in the field of industry is a characteristic feature of the less developed economies. The reluctance of nations to engage in industrial ventures is due to a variety of factors, the principal of which are insufficient knowledge of technology and management, limitation of private financial resources, shortage of skilled manpower, ignorance of prospects offered by industry, and competition of other activities such as commerce and building.

In countries at early stages of industrialisation, the lack of industrial base and of industrial climate is in itself a disincentive to entrepreneurship, and the vicious circle can be broken only by direct government investment and special measures to promote foreign and domestic private investment. Experience shows that, even in countries having achieved a measure of industrialisation, where more favourable conditions for spontaneous industrial initiatives exist, measures of promotion and assistance stand at reducing risks of entrepreneurship in industry are still required. These are all the more necessary in the case of small-scale industry, where the unknowns, hazards and risks of entrepreneurship are particularly great. Pre-investment guidance and assistance to small entrepreneurs appear to be needed not only in the developing countries but in the industrial ones as well.

In a broad sense, the concept of promotion of entrepreneurship covers all activities tending to induce and facilitate the establishment of new, and the expansion of existing, manufacturing enterprises. In that sense, it is almost synonymous with the promotion of industry in general, whether made to large, medium or small, ownership national,

foreign or mixed. In this broad sense, it covers a variety of industrialisation programmes, some of which apply to industry in general, others to industries of certain types and sizes. Thus, tax, customs and other incentives may be of general applicability or may be reserved to industries meeting certain conditions regarding type of activity or size of investment. Measures specifically aimed at promoting entrepreneurship in large-scale or medium-sized enterprises include establishment of financial markets, in particular stock exchanges, special credit facilities, government equity participations, guarantees to foreign investors, provision of industrial areas and sites. Measures intended to stimulate entrepreneurship in small-scale enterprises include establishment of industrial estates, industrial extension services, supervised credit, etc.

In a more narrow sense, promotion of entrepreneurship covers the provision of direct services to individual entrepreneurs, prospective or established, aimed at attracting and steering them towards new industrial activities, and assisting them, through counselling and training, in setting up, expanding or diversifying their undertakings. As a rule, assistance of this type is rendered by people with limited technical and managerial knowledge and modest financial means. Especially in the newly independent countries, these people usually belong to the indigenous sector of the population. This type of promotion is a major element in a programme of development of small-scale industry.

In this as in other aspects of small industry development, promotion must be more thorough and sustained than is required in the case of larger enterprises. It is usually not enough to wait until prospective entrepreneurs come for advice and information on the establishment of an industrial enterprise. Prospective entrepreneurs should be sought out by an appropriate agency - small industry service institute or industrial extension centre - from likely sources: educated young men, merchants and traders, foremen and skilled workers

from large enterprises, artisans and handicraft workers, government officials, well-to-do agriculturists, etc. Quite often, technical assistance to established industrialists leads to recommendations for expansion, modernisation or diversification of production which may entail such changes in accommodation, equipment, processes, management and product that they may be tantamount to the creation of a new unit.

Information should be provided to small entrepreneurs on all issues arising at the pre-investment stage: choice of industry and of industrial product lines, size of investment in fixed and working capital, size of plant, type of equipment, materials and production processes, sources of financing, marketing prospects, turnover and profitability, choice of location and so on. Assistance should be given them in making credit applications, carrying out incorporation formalities, obtaining building licenses, import licences, exchange authorisations and other pre-requisites to establishing or expanding an industrial enterprise.

Such promotion should evidently be selective. It should not be aimed at giving rise to, or artificially maintaining, weak, vulnerable and inefficient industries. Entrepreneurship should be stimulated in industrial sectors offering favourable prospects and corresponding to the priority areas of the country's industrialization programme. The types of industries which are economic on a small scale, which can sustain the competition of larger firms, or which can be linked with these by complementary relationships, and which have prospects of expansion and diversification, should be identified through careful studies. Hence, the importance of surveys of prospects of industrial development, especially on a small scale, in various regions or localities of a developing country. Needless to say, selectivity is also needed in regard to the abilities and personality of the entrepreneur.

Studies and services for small-scale industries

Some of the broader aspects of promotion of entrepreneurship in small-scale industry are discussed in papers relating to industrial estates and industrial extension services. In this paper, attention is paid to the more narrow question of pre-investment studies and services. These are

examined under four principal aspects: feasibility studies, area surveys, market surveys and model schemes.

In general, the techniques employed in the first three types of studies are the same whether the studies are concerned with prospects of large-scale, medium-sized or small-scale industry. Inasmuch as the present publication is intended for officials and technicians of agencies for the promotion of small-scale industry, technical assistance experts and other persons engaged in the development of this sector who will have, as one of their main duties, to give assistance to entrepreneurs at the pre-investment stage, it has been thought useful to present, as part of this volume, this general information, emphasis being put, wherever appropriate, on aspects of special relevance to the development of small-scale industry.

This is also done for another reason. There is no doubt that in most developing countries, pre-investment studies and surveys carried out by industrial development corporations and banks and by planning agencies are, in view of the objectives of these organizations - development financing and development programming - mainly focused on large-scale and medium-sized industrial projects, in many cases at the level of the individual enterprise. In these surveys, the prospects of establishing small-scale enterprises are as a rule indicated in very general terms and detailed investigations are seldom undertaken. The pre-investment studies for small-scale industries discussed hereunder may, of course, be prepared by the economic and technical staff of development corporations and similar agencies, in particular Industrial Studies and Development Institutes, where they exist, but experience suggests that such studies will usually be given a relatively low priority, mainly because the time and preoccupations of the available staff will be directed towards the larger projects, current or prospective.

Thus, if detailed advance surveys of prospects for the establishment of small industries are to be carried out on a sufficient scale, they will generally need to be undertaken by special agencies for the promotion of this sector, or by a small industry unit of a general industrial development organization when - as is often the case in the smaller countries or in countries at early stages of industrialisation - all aspects of industrial development are dealt with by a single body.

The fourth type of study - model schemes - is, on the other hand, prepared exclusively for small-scale industries. Standard schemes, indeed, are suitable for many small establishments, the larger enterprises requiring as a rule, "custom-made" plans.

It will be seen that in the case of small-scale industries, studies and surveys are only a part of promotion work at the pre-investment stage, special services to small entrepreneurs constituting the other, no less important, part. Some services, no doubt, need to be provided to facilitate the launching of larger establishments - say, assistance in finding land, constructing the factory, training and supplying labour - but much more has to be done to induce small entrepreneurs to become industrialists and to assist them in setting up their undertakings. In general, the surveys and studies described below will be effective only if complemented by such services.

PRE-INVESTMENT STUDIES AND SERVICES

Objectives

Pre-investment studies have two broad objectives: firstly, they are aimed at providing a government department or a public agency with the basic data needed for drawing up and implementing programmes of development of small-scale industries; secondly, they should guide entrepreneurs in taking appropriate decisions on product lines, location, size of enterprise, manufacturing operations, financing methods and marketing techniques.

A public or semi-public agency - government department, small industry service institute or industrial development corporation - needs several types of information in order to plan and execute a programme of promotion of small industry. It needs to know the prospects for small-scale manufacturing units in each type of industry and at different locations to determine, so far as feasible, what kinds of small industry should be given encouragement and what kinds should be discouraged. It also should have information on the types of developmental aids that are required and on the best locations for such facilities. A pre-investment study programme should thus enable the agency to identify industries which offer the best prospects for small-scale undertakings in different areas; to help in locating and determining the scope of facilities of industrial extension services, industrial estates, common services and other developmental aids; and to help in small industry financing.

Many of the studies mentioned above will also help prospective and existing entrepreneurs in reaching right decisions about the creation of new establishments or the improvement or expansion of existing ones. Entrepreneurs need information and analysis on the market outlook for specific manufactured goods and the types of product with best sales prospects; marketing channels; transportation costs and problems; choice among alternative processes, requirements and costs of plant and equipment, raw materials, power, components, etc.; managerial and technical staff; skilled and unskilled labour; profitability, and government policies, regulations and assistance.

Types of Studies Required

Four types of studies are required to meet the needs of entrepreneurs as well as of the development agency. These are: industry feasibility studies; area surveys; market surveys; and model schemes or industry guide sheets.

An **industry feasibility study** is concerned with the economic prospects of establishing and operating a particular industry or manufacturing a specific product or group of products. The study attempts to evaluate and measure all the relevant factors - labour, energy, direct labour, competition, raw material availability, capital, labour skills, production processes, etc., It provides conclusions and recommendations on the nature and size of enterprises to be encouraged and their location, production, financing and marketing, investment required, cost of production and profitability, and policies and measures for establishment or expansion of the industry. If an industry is not considered feasible, either in the short run or in the long run, the study analyses the reasons for such a conclusion and recommends either that the industry be discouraged or that measures be taken to improve the long-run prospects. A outline for an industry feasibility study is presented in Appendix I.

An **area survey** is a study of the industrial potential of a given area, which may be the whole of a country, a region, a province, a district or a town. The survey is an orderly, systematic investigation and analysis of the resources and markets of the area and analyses the competitive advantages or disadvantages for each potential industry as related to alternative sources of supply. The preparation of an area survey involves four general types of inter-connected analysis: firstly, an analysis of existing and potential demand for manufactured goods within and outside the area that might be met commercially from industrial enterprises to be located in the area; secondly, an assessment of resources, human as well as material, available in the area, or that could be imported from outside at reasonable cost, and that are required for setting up new factories enterprises in specific industrial sectors; thirdly, an appraisal of the existing and prospective infra-structure development of the area, that is, its economic overhead facilities and social services, and the extent to which it could support industrial development; and finally, recommendations on those industries which are feasible and desirable.

conducting the General, the members and the Information Service
and of the area. The areas ought to control and exploit the best
part of available space of the country as of the sea, and to
take account the most feasible for industrial development of the ports
in the field of agriculture, art and commerce. The information
service and the carefully prepared area survey should provide
the basis for a sound program of industrial development, the
choice of and laying up industrial possibilities and the necessary
means of protection and expansion, as well as the area survey
is presented in Appendix II.

Market Survey provides information on the markets for given products which are used by existing and potential manufacturers. This information is needed not only to improve distribution and to expand sales but also to assess the possibility of marketing influences. The survey covers size and location of markets and distribution centres, competing products, existing policies and practices of distributor and retail dealers and customers, distribution costs, characteristics of competing products, distribution and quality specifications, branding, advertising, publicity and advertising and consumer acceptance of existing or new products. Market Survey also provides information on the potential size of the market, the long-run effect of other trade products and the elasticity of demand. In addition for a market survey to be presented in Appendix III.

Once an area survey or an industry feasibility study reveals favorable prospects for an industry or a new plant, it is useful to prepare a **start-up plan** or an **industry plan book** for the guidance of entrepreneurs wishing to enter the industry or expand their product lines. These are short informative documents summarizing the essential requirements for establishing and operating the industry, or manufacturing the product. The information should describe the products to be manufactured, the process of manufacture, the size of capital investment, the requirements of fixed capital for land, buildings, machinery and equipment, the requirements of working capital for materials, stores, labor, etc.

~~types and other categories, and an estimate of the time and expenditure of the collection, and of the estimated profitability. As well the figures, which were to presented to Committee B.~~

中華書局影印

The outcome of the study is explored in three stages and includes
first the extent and nature of the relationship, second an
examined short-term trend, the third and moreover conditions for
generalization of these findings and - last the most important - the
conclusions and a synthesis of the research findings according to three dimensions:

The methods of analysis usually employed are based on: (a) identifying variables related to the further evolution of inflation; (b) estimating error for forecasts; (c) comparing different simulations; (d) comparing different transmission mechanisms or different processes of transmission; (e) examining predictability; and (f) examining forecasting.

(1) **1996年** **1月** **1日** **新規登録**

Among the external factors controlling the growth of industry in the developing countries are import substitution, the demand for cheap labor for heavy growth and the substitution of factory output for the production of handicrafts and traditional industries. These factors are to be taken into consideration in the preparation of the survey.

^V The effects of these factors on the growth of industry have been estimated by R.D. Sharma, et. al., respectively, one half, one third and one sixth.

Step 10

In another book on Industrialization the very first approach should be to secure statistical data on imports into the country or the area under study. Imported and growing imports of certain manufactured goods could indicate favourable prospects for domestic manufacture. Secondly, a study of agricultural, forestry, geological, and marine resources could indicate the possibility of setting up processing industries and resource-based industries. Thirdly, a commodity of demand existing or likely to exist in other sectors of the economy from programmes of development of agriculture, education, health, etc., could give leads for several intermediate goods, such as building hardware, bricks, agricultural tools, fertilisers, pesticides, etc. Fourthly, an analysis of the household and handicrafts industry sector could reveal possibilities for the introduction of modern methods of manufacture in certain industries, such as leather products, sheet metal products, food processing, fruit canning, etc. Fifthly, if the country or area already has one or a few large industrial enterprises, the demand for stores, intermediate products, and components of these factories will point towards possible candidate industries of small and medium size.

A competent and experienced industrial economist or industrial engineer would be able to provide a negative check on the list of candidate industries by excluding those products which are not likely to have a sufficient market or which are not likely to command sufficient complementary resources - skilled labour, raw materials, capital, etc. - or which are clearly not feasible technically on a small or medium scale. He would then work out a realistic list for more detailed consideration.

(b) Demand estimation

After drawing up a list of candidate industries, the very first check for feasibility will be to make a demand projection for each product in order to determine the size of the potential market and the number and size of manufacturing units required.

Before a demand projection to make, it is necessary to have a clear idea of the factors which control the products of a particular industry demands. Data should be collected not only on production trends and sales trends for the articles in question, but also on related factors which influence them. For example, the demand for motor vehicle batteries would be estimated not only on the basis of a projection of trends in consumption, but also of prospective developments in highway construction and road transportation, the anticipated growth in houses and in the number of persons owning automobiles, etc. Similarly, the demand for building batteries should be related to housing and construction activities.

A careful estimate of current consumption of the product in question must obviously precede estimation of future demand. Since a product is not manufactured in the area, annual imports corrected for any changes in inventory should provide an idea of the current consumption of the product. When there is already some manufacturing in the area, apparent consumption is arrived at by figures of production within the area plus imports into the area, less exports from the area, corrected for inventory changes. Other figures of imports into a region or area, which form part of a country, or of exports from it or of production of small-scale enterprises, are not readily available. In such a case, consumption may be estimated either through a survey of end users with the principal buyers and additional consumers in the principal markets of the area or through ascertaining to the area's share of the national consumption of the product on the basis of population, per capita income and gross national product; or by deriving consumption of the product under consideration from that of a related product which might be known, for instance, bicycle sales from number of bicycles on the road or after a recent pilgrimage from school enrollment in religious classes.

The rate of growth of consumption in the recent past, say, the last four or five years, should also be estimated. It is often difficult to obtain the necessary data and indirect methods need to be employed. For instance, the growth in consumption can be

estimated from figures of values of compensation claims over a period of three to five years. These related data may need to be used, for example, the trend of compensation of losses being suffered could be passed from the losses to the other aspects of compensation to the area.

Future trends for a specific item should be evaluated on the basis of trends in compensation of the article and changes in related factors, projections therefore to losses and the likely effect on compensation of the article, changes in factors and conditions, growth of populations, current associations and any other factors likely to affect future trends. In computing such trends into the future, allowances should be made for external influences which are the result and/or the possibility of rapid development in the new future. For instance, an element of current foreign exchange movements, there might be considerable modification forecast for an article, which might result in a very rapid increase in compensation immediately after import substitution is established, and the same may lead off after a few years to normal replacement imports. Then, unanticipated inflation and control or control might give rise to demand for relatively low articles under normal future, especially in a rapidly expanding gross national product as a result of agricultural and industrialisation development, for example, rubber trees replacing rubber as tree fibre in demand. Consequently, electronic form recording generally recorded entries for contributions and receipts.

The function of forecast may also be used by comparing conditions of growth in other countries or similar changes of local export. In a limited way, this method can be used to compare developments in different areas outside the country. Projections of demand for particular articles to one region would be applied to other regions if conditions of growth are similar.

One of the methods employed to construct more detailed expenditure data are available to the projection of consumer expenditures for certain manufactured products is the use of ~~new~~ new income patterns. If consumer expenditure data for particular industries are available for different income groups, the ~~need~~ for the article to predict could be predicted by examining the consumers who come into the new income group and their income ~~and~~ or less in the same way as consumers already in that income group. Finally budget studies and data on consumer expenditure patterns of different income groups could be used for this purpose.

Data are available to some industries for calculating income elasticity coefficients of demand for certain products. These coefficients express the relation between changes in per capita income and changes in per capita consumption of the product in question. These coefficients can be employed as one of the tools for the estimation of future demand.

In industries having detailed statistical data and employing ~~different~~ different kinds, it would be useful to use input-output tables for forecasting demand. In input-output tables makes possible a detailed analysis of inter-industry relations. If such a table can be set up, it will indicate for a particular industry how much of the output goes to each of the other industries and to households. It will also show how much this particular industry buys from other industries and how much it pays out to households for wages and salaries. The total weighted relationships can be made of the effects on every industry of a given change in any particular type of demand. For instance, the demands generated by a home building program for lumber, bricks, cement, paint, and so on could be calculated. The use of some kind of analysis often makes use of coefficients in developing equations due to the technology of mathematical and computational tools for manipulating tables.

(e) Location analysis

The selection of appropriate locations for petrochemical industries is an essential aspect of pre-investment studies. Indeed, industrial feasibility cannot be considered without reference to economics of location. In general, the best location for an industry manufacturing will be the one minimizing the minimum total transfer costs, that is, the procurement costs of materials and energy and the distribution costs of product to the final or other markets. Shorter-located industries are those in which unit transfer costs (say, per ton mile) are higher on products than on materials. Farther-located industries are those in which procurement costs of materials or ~~energy~~ are higher than the distribution costs of products.

Studies of the economics of British oil refining industries indicate a definite correlation between the degree of localization of industry and small size of plant. Industrializing predominantly ~~middle~~ size plants are widely dispersed in search of economies of their purchase and markets and the heavy cost of transport of their materials and products. These industries have dispersed small plants to reduce transport costs of ~~refining~~ materials or of ~~marketing~~ products; other industries are extremely local and will choose to reduce transport and market costs by moving closer (or the same) industries from small plants concentrated and ~~dispersed~~ at large-scale production.^{1/}

According to another recent study,^{2/} the predominance of small plants in an industry is to a very great extent determined by locational factors, and may be a lesser degree by factors in ~~the~~ ~~and~~ ~~other~~ ~~factors~~, about 17 per cent of the cases studied by

-
- ✓ ~~Refined oil products of about 100,000 barrels,~~
 - ✓ ~~petroleum, 100,000 barrels per day, and the~~
 - ✓ ~~petroleum, 100,000 barrels per day, and the~~
 - ✓ ~~petroleum, 100,000 barrels per day, and the~~

contribution to small plants in the United States in 1950 was accounted for by types of industries influenced by factors which were for dispersed location and hence for smaller plant. Other than if the industry were geographically concentrated. These are: factories which produce a dispersed raw material (12 per cent), products with fixed costs and relatively high transfer costs (11 per cent) and service industries (10 per cent). Services (or services, in which scale economies are not pronounced, accounted for 20 per cent of small factory output) represent manufacturing operations in general, craft or tradesmen (7 per cent), assembling or making or finishing operations (4 per cent). Finally, direct market influences accounted for 23 per cent of small plant output. It was seen by differentiated products having low fixed costs and 3 per cent by industries having small total costs.

In considering location factors for multi-plant industries, it should be noted that although there is a linear relationship between the degree of localization and size of plant, this is not likely to be a strict. Previous has noted that at highest levels of localization there is a marked concentration of industries with multi-plant operations consisting from a high degree of localization suitable to the extent the need for the internal economies of the large plant. The localization of many medium or smaller plants reflects concentration of production between operations and functions, between specialized and common and between different operations, and the same process, to those found within a single large plant. The very fact of such participation brings with it increased capacity of demand and tends to encourage the small plants to take up more and smaller.

In an over survey of a feasibility study, technical analysis of transportation costs analysis and industrial complex analysis might be employed to determine the cost implications of alternative plant sites for established multi-plant industries or for a group of multi-plant industries.

Computerized cost analysis will therefore working out for each industry and each location, data on procurement cost for materials, distribution cost for products, labour costs, energy costs, rent and depreciation per unit of production; the advantages and disadvantages of the locations could thus be measured and preference ratings set out.

Industrial complex analysis involves a comparison for different locations of the net advantage of combining location of a group of inter-related industries. Such an analysis makes it possible to take into account the economies of agglomeration and to evaluate the overall advantages of location of several inter-related industries of mill and related sites. The location selected through industrial complex analysis might not necessarily be the most advantageous site for each industry, but the disadvantage of location for one industry, for instance, higher procurement cost or higher distribution cost could be more than made up by advantages for other industries and by overall economies of combined location, such as lower cost of power, lower cost of supply facilities, lower manufacturing cost or amount of utilizing non-industrial product and services - stores, components, working materials or certain processes. The significant of industrial complex analysis lies in the possibility of a combination of some industries (selected areas by themselves for their location) with other industries (not selected areas by themselves) which yields a net advantage greater than through location of only those industries which are giving advantages for their location.

The important studies for small scale industries have to be reported and against the background of government policies and economic and infrastructural indicators location to have the studies would help in the formulation of specific measures of promotion. In developed and the most developing countries, the industrial policies of industrial zones are nothing generally are to stimulate balanced regional development, to ensure employment and to induce development in relatively backward areas of the country, while at the same time

choice of location in the rural urban centres. The measures which most governments take to influence industrial location include provision of infra-structure facilities, fiscal incentives (tax exemptions or abatements), financial incentives (subsidies and low interest loans), extension services (economic, technical, managerial and marketing assistance), training facilities and so on.

In the developing countries, the establishment of industrial areas and industrial estates is becoming a major instrument of industrial location policies aimed at stimulating entrepreneurship and promoting small-scale industries. Properly planned and located industrial estates may have a catalytic effect in attracting industries to under-developed areas having industrial potential, and provide a focal point for extending integrated assistance to small entrepreneurs. Industrial areas are effective, in conjunction with other incentives, and provided basic location requirements are met, in attracting larger industries. A programme for promotion of industrialisation through the establishment of industrial estates and industrial areas requires adequate pre-project planning. The first step is to survey appropriate locations. Such a survey, which might be called an industrial estate feasibility study, should assess the industrial potential of the proposed location (or of several alternative locations) and of the hinterland, the resources and demands of the area, the types of industries feasible, the extent of capital and entrepreneurship likely to be generated and, in the light of this review, estimate the size of the industrial estate, the infra-structure facilities required, the service facilities and other promotional measures required, marketing technical, financial and managerial assistance. The planning of an industrial estate should be correlated with overall industrial planning for the region and the feasibility study should include such considerations as sufficient demand for factory space in the long term; proximity to markets, transport, skilled workers, housing and other factor conditions; construction costs in relation to existing rental levels in the locality; availability of equipment

and raw material supplies to prospective occupants, and adequacy of power and other utilities. It should also be co-ordinated with regional planning, if any, and zoning, and the usual physical planning criteria should be applied in site selection and development, and construction of factories and other buildings and facilities.

An outline for an industrial estate feasibility study is presented in Appendix V.

(d) Choice of size, processes and technology

An area survey report should result not only in drawing up a list of feasible industries and desirable locations, but also in estimating the number and size of enterprises in each industry recommended for establishment. An industry feasibility study should consider alternative processes and technologies and select those best suited for the economy. A model scheme or an industry guide sheet should describe the processes of manufacture recommended and the requirements of capital, labour, machinery, materials and so on.

The demand projections should estimate the maximum capacity for each planned industry, allowances being made in each case for the additional slack capacity usually required for efficient operation. In recommending the size and number of factories to be established, the choices available between different processes and techniques of manufacture and between different machines and equipment (especially for processing, light engineering and service industries) should be carefully considered. The most advanced technology is not necessarily the most economical, especially in a developing country, having regard to the size and nature of the market, the size and quality of resources, the capital costs (interest, depreciation), the labour costs (wages and salaries), the need to remunerate capital and employ more labour and the need to economise in the use of foreign exchange resources. In selecting an appropriate technology (or mix of technologies for different processes or different components), the need to ensure

the required quality and standards in the end-product and the need to ensure long-term growth of the enterprise and of the industry should be given due consideration.

One method for selection of the most appropriate technology is to compare the costs of two or three alternative technologies, if any, the extreme cases of hand production and automation being prima facie ruled out. The elements to be compared and evaluated would be capital investment, employment, capital investment per worker, capital investment per unit product, labour cost per unit product, material cost per unit, overhead per unit, and total cost per unit product. In general and depending on the relative capital costs and the relative labour costs, different technologies would be appropriate for different levels of output required. The overall allocation of capital and foreign exchange resources in the economy would also affect the choice of technology.

Guidance on the choice of size and technology can be derived from statistical and engineering studies of industry in the advanced countries. Information is generally available on average number of workers per establishment, ratio of fixed capital to value added by manufacture, wages as per cent of value of product, materials cost as per cent of value of product, horsepower per worker and other relevant data. Model schemes, feasibility studies and industry guide sheets, particularly those prepared for other developing countries may usually be either directly applied in, or adapted to, the conditions of the area or country being studied.

Industrial research institutes and technological information centres in developing countries need to give special attention to the modification of capital saving techniques. They should also build up information on specifications and capacities of different types of machinery and equipment.

(a) Profitability analysis

Profitability or percentage return on investment is the main criterion for investment by private entrepreneurs, and should be estimated in the area survey reports for the recommended industries. An estimate of the rate of return on investment is absolutely necessary in the feasibility reports and model schemes. Profitability is measured by the percentage rate of profit on investment in equity capital (or proprietary investment).

In order to work out profitability, data should be collected for estimating: (i) total manufacturing cost (direct labour cost, materials cost and overheads); (ii) net sales (estimated gross sales minus selling costs); (iii) profits ((ii) minus (i)); (iv) total capital needed (fixed capital plus working capital plus contingency reserve); (v) equity capital needed (total capital needed minus estimated borrowings from banks and other sources); and (vi) return on investment ((iii) divided by (v) multiplied by 100).

In the selection of feasible industries, profitability ratios are meaningful in the context of the prevailing rates of return in the money and capital markets of the country, which indicate alternative returns for funds available for investment. What particular industry's profitability ratio will attract such funds to the industry will depend not only on the rates of interest in the money market and rates of return in the securities market, if any, but also on fiscal incentives offered by the Government, the long-term outlook for the industry, the nature of entrepreneurship in the country and, where the objective is to attract foreign investment, the return expected by foreign capital and entrepreneurship. Government or central bank policies and measures to influence the availability of funds for industry, and the possibility of providing a desirable interest rate, which might be different from the prevailing interest rate, could be taken into account by making calculations on the basis of shadow rates of interest or accounting prices for different factors of production.

(f) Other feasibility criteria

While profitability is a major criterion for attracting individual entrepreneurial initiative, several other criteria should be considered from the point of view of the economy of the country or area under study. Not all industries which are likely to be profitable individually would qualify as feasible, desirable or necessary.

In countries with scarce capital resources, the maximisation of productivity of capital investment for the economy as a whole is a prominent objective. For a given industry or for an enterprise, productivity of capital investment is measured by the capital-output ratio, that is the ratio of capital invested (usually fixed capital) to the value added by manufacture (gross value of output minus value of materials, supplies and energy).

Another consideration is usually to minimise employment, and to reduce the value of capital investment per worker employed. Where skilled labour or technical labour is scarce, the objective may be to maximise labour productivity (value added by manufacture divided by number of labour used).

The net effect of the industry on the country's foreign exchange resources is also to be considered. Industries should be evaluated having regard to their effect on using or saving foreign exchange both in the short run and in the long run. In most developing countries, particularly those with balance of payments difficulties, industries using indigenous raw materials or replacing imports or promoting exports are usually given preference.

The use of input-output tables, along with regional income data, facilitates considerably the planning of the use and allocation of resources (including labour and capital) and the production of intermediate and final goods in a manner consistent with the economic and social goals set for the economy of the area or the country. Goals may be set for the region and for the country for goods for household

consumption, goods for investment in plant and equipment, goods for purchase by government and goods for export. Input-output tables make it possible to calculate the input requirements for each region and for the country and the output to be produced by each industry. Under such a system of planning, development projects, in particular industries may be allocated among regions with a view to reducing costs to comparable levels.

VERSATILITY, VARIETY AND GROWTH - SOME CHARACTERISTICS OF PROSPECTIVE SMALL INDUSTRIES

There is abundant evidence both in developed and developing countries that a variety of products are viable for manufacture by small-scale enterprises. In any particular country and at any particular moment, a number of inter-acting factors combine to give small enterprises a favourable position in the manufacture of certain products and in certain services. The effects of production costs, scale economies, market characteristics and location factors have to be studied and analysed. The types of products in which small plants predominate in the United States, it has already been pointed out, are characterized largely by locational influences, but to some extent also by market influences and process influences. A detailed review of data and experience in several developing countries, recently carried out,^{1/} identifies five principal types of small industry opportunities.

Firstly, there are opportunities in the dispersed processing of weight-losing or perishable raw materials depending on the resources, geography, transport network and land ownership patterns of the country or area. Examples of such industries are rice milling, rice bran oil, saw mills, wood drying kilns, vegetable oil extraction, cheese, butter, leather tanning, fruit and vegetable canning, hardboard and strawboard.

Secondly, there are a number of construction, agricultural and household goods which offer opportunities for small-scale industries

^{1/} Stanley and Rivers, D.M.I., Chapter 6.

because they are mainly bulky or weight-giving and hence cost-oriented. Examples are agricultural implements, sheet metal products, containers, mixed fertilisers, bricks, concrete products, structural metal products, plastic pipe and conduit, bread, soft drinks, ice cream, furniture and trucks and so forth.

Thirdly, there are products of simple assembly, mixing or finishing operations, requiring low investment, having moderate economies of scale, being labour-intensive and having low transfer costs. Examples are: food products, clothing, footwear, leather goods, pharmaceuticals, paints and varnishes, sports goods, plastic products and toys. These are particularly suitable for establishment in urban centres enjoying external economies.

Fourthly, there are service industries which have potentialities for undertaking quality job work and specialisation tasks. Examples are: tool and die-making, electroplating, printing, electrical servicing, auto servicing, foundries and machine shops.

Fifthly, assembly manufacturing operations in the metal-working industries offer potentially the greatest scope for small enterprises. The versatility and repeatability of machine tool operations, the endless number of products and components to be made, and the interchangeability of standard parts, offer great opportunities for craftsmen and engineers to adapt and innovate constantly in response to changing cost and production possibilities. The dynamic element in the metal-working industries is well suited for the technically-oriented entrepreneur and accounts for the significant role of the small proprietary and partnership firms in tool and die making, designing, and specialisation job work, even in developed countries. Specialisation in certain operations makes possible scale economies, versatility and specialisation working yield high value added in the products manufactured. The possibilities of subcontracting between small and large industries are particularly great in the metal-working sector.

~~SECRET~~
~~NOFORN~~

[REDACTED]

The preparation, publication and dissemination of such ~~information~~ for information considered to be feasible at the time of the change or when key changes to one of the most important aspects of such information can be extracted and passed forward may prove a satisfactory solution. I would suggest that the following and mentioned. While it should reflect informed judgement on technical and economic factors, including production requirements, areas of short, long-term factors, the potential problems, areas of new and alternative factors, it will according to a time limit and still have to be adhered to the usual situation and accepted for any changes to make and actions. The information should be passed to translating the entire note to English by the relevant agency of the developing agency, and the responsibility and risk of translating should reasonably fall onto the responsibility.

The United States Agency for International Development and the Government of the Federal Republic of Germany, have prepared a series of ~~Information~~ Notebooks, based on United States and German law and containing all the essential information contained in Appendix II, for the guidance of the group's advisory office to be as well as of additional advisory organisations in developing countries. The Agency has also made and had ~~Information~~ Notebooks for a number of countries, which give more detailed information production and planning, marketing and distribution, contract and conditions, legal requirements, risks and responsibilities. The information contained by the agency is extremely valuable as reference material, but has to be adapted to the needs and requirements of each developing country, areas ~~under~~ and areas who will not submit notes to the United States.

The Central Staff Information Department of the Government of India has prepared ~~Information~~ Notebooks for the producing and marketing ~~Information~~ Notebooks for 11 countries. The latter are economic reviews, containing analysis of the newly formed situations and countries and a feasibility, and maps for the respective countries. The central staff information department of the information contained in Appendix II to

~~the respective industries. They are based on typical Indian
conditions and Indian experience, but for my specific function
over the country or areas they have to be satisfied to exist local
and national.~~

~~ORGANISATION OF INDUSTRIAL SPYING~~

~~While no overall policy for Post Planning and Policy and
Industrial Spying will be required before the inception of a
comprehensive policy for small scale industries or in the listed
areas, organisation of the concerned entities on a unitizing basis
is called for the success of any preventive programme. In such
unitizing consideration must therefore should be given and other govern-
ment agencies as part of the activities of the government or
industrial agency charged with the prevention of programme of
industrial espionage - Department of the Ministry of Industry,
small industry service institutions or Industrial Development corporations.
In consideration having with regard and matters of economy, trade or
industry associations, industry federations of allied industries,
Industry associations firms or private economic research institutions,
the types of entities would be undertaken by these last entities
as per provided by the government. However, the need for
adequate expression of concerns for different industries and
uniting of efforts can be met only by a group regularly engaged
in this area.~~

~~Different types of arrangements for carrying out pre-technical
studies are illustrated by the following examples relating to India,
United States, France, Italy and Turkey. In India, an economic
investigation group was set up to the small-scale organization of
the Development Board under the Small-Scale Industries in 1971, that
is, prior to any formation of the small industry investigation
group. Economic investigation staff comes to the various small
industries service institutes established in the states. A programme~~

of industry called IRSI, one Industrial Service, industry
research centre, credit services, credit advice and economic
information service is carried out over central direction and
cooperation. Since the years the emphasis has shifted, on the
one hand, from studies intended to assist the government economy
to those designed to benefit the industry and the entrepreneurs and,
on the other hand, from governmental studies concentrating on
the industry or the area to cross-economic studies concentrating
on the entrepreneur and the entrepreneur. This collaboration of
engineers, technicians and managers associated with economists
is according to factors, analysis of costs, substitution of
values for cost, state of technology, etc., has been found to be
essential; at the beginning this was carried by the leading engineers
in the economic research groups and later by encouraging closer
cooperation amongst different specialist groups in a Small
Industries Services Institute to carrying out the surveys and
studies.^{1/}

In Italy, pre-investment studies for industry in general are
carried out by a number of public institutions set up for promoting
the economic development of the southern part of the country. Studies
and analysis are also undertaken by an independent private non-
profit organization for the benefit of both public institutions and
private entrepreneurial groups. This organization is the Institute
per l'Industria alle Pelli e per le Ricerca e la Documentazione (IIPR), which has
as its members public and private agencies, including the Istituto per
la Ricerca e la Documentazione delle Pelli d'Italia Meridionale and the three regional credit institutes, via
INRISI (Institute for the leather industries of Italy Meridionale),
IFPI (Institute Regionale per il Finanziamento alle Industrie in
Pelle) and CIB (Credito Industriale Bari). IIPR is financed by
the annual dues of its members, grants from the State and private
or public agencies, donations and fees for certain services to

1/

~~On January 1960, the Small Industries Services Institute, IIPR, was established
by the Government, A.I.R.E., T.I.C., and
I.P.R., in the Small Industries Institute, later rechristened
IIPR, I.M.L.~~

some part of their cost. It carries out four major types of activities: the promotion of investment in southern Italy; the promotion of services of all kinds (commercial, financial, technical, marketing); studies, particularly market studies and sectoral analysis; the promotion of incentives to the private's establishing industrial areas and industrial zones.

In Brazil also, the Industrial Development Company (PRISCO) - a government-owned agency - carries out programmes, the government Development Bank finances enterprises, and the Economic Development Administration (EDA) - a government department - carries out research and promotional work. It has an Office of Economic Research, which conducts basic research on the feasibility of new industrial operations, analyses performance and develops targets for various enterprises. It also provides a much used planning and advice service for government agencies as well as businessmen. On the basis of the studies carried out by the Office of Economic Research, the Industrial Promotion Department of EDA provides information on the feasibility of industrial projects and assists in planning an enterprise, including working out locational and financing problems, training of workers, industrial research and marketing research.^{8/}

In Turkey, feasibility studies for location of industrial estates and studies on prospects for various industries have been undertaken by the Union of Chambers of Commerce, Industry and Commodity Exchanges, supported by non-earmarked funds, government grants and foreign aid funds. These studies have been designed mainly to attract foreign private investment.

In some Scandinavian and west European countries, surveys and studies, revision of market information and other services, are undertaken as a joint activity by small manufacturers themselves.

8/

See papers on Port 8100 in the publications entitled "Methods of Industrial Development", 1962, and "Regional Economic Planning: Techniques of Analysis", 1964, published by the European Productivity Agency of the Organization for Economic Cooperation and Development, Paris.

RESEARCH

either through industrial and trade associations, or through studies or exchange-of-information groups organized by them. The activities of these associations and groups are supervised by an external group. In the developed countries, research activities are usually provided as a commercial service by private consulting firms.

THE ROLE OF GOVERNMENT

Most early labor-staffing organizations have extensive private publications, trade associations or clusters of ~~members~~ for advertising pre-investment studies and surveys, which will, therefore, have to be organized initially under government auspices. A research group of economists, engineers and management specialists should be set up in an Industrial Development Agency, an Industrial extension service, a department of a corporation, to be established by the government, which would prepare industry feasibility studies, area surveys, market studies and model studies, and develop economic and technical information for the use of the agency and of prospective entrepreneurs. It will often be difficult to find personnel for such a research group trained and experienced in methods of applied industrial analysis research. Potential candidates ought to be obtained for the training of personnel through the services of foreign experts and the provision of fellowship programs for national personnel. The United Nations has set up with assistance from the Special Fund Industrial Studies and Development Institutes in some developing countries, for industrial feasibility studies and training national development personnel. In India, where a comprehensive and widespread program of small industry development has been undertaken, it has been found necessary to establish a national training institution for the training of industrial economists and industrial extension personnel. One of the training courses undertaken by the Small Industry Extension Training Institute is intended to be in the field of area development; Market Information Services, Economic Structure of Industries, Economic Investigation

~~efficiency and ultimate responsibility for industrial development in
countries are retained by developing countries, analysis of industrial
development in an area and outline of promotional areas.~~

After the discussion on the above topics, the following conclusions were arrived at:

- a) The term "Industrial Development" has been defined as "the process of creating conditions for the growth of industries in a country".
- b) The term "Promotional Areas" has been defined as "those areas where industrial development is to be promoted by the government".
- c) The term "Industrial Policy" has been defined as "the policy adopted by the government for the promotion of industrial development".
- d) The term "Industrial Planning" has been defined as "the process of formulating a plan for the promotion of industrial development".
- e) The term "Industrial Promotion" has been defined as "the process of encouraging industries to locate in a particular area".
- f) The term "Industrial Location" has been defined as "the process of selecting a site for an industry".
- g) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- h) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- i) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- j) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- k) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- l) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- m) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- n) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- o) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- p) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- q) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- r) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- s) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- t) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- u) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- v) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- w) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- x) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- y) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".
- z) The term "Industrial Site Selection" has been defined as "the process of selecting a site for an industry".

✓ The term "Industrial Development" has been defined as "the process of creating conditions for the growth of industries in a country".

APPENDIX I

FORMAT FOR A REPORT PRELIMINARY STUDY

I. INTRODUCTION

(a) BRIEF DESCRIPTION OF INDUSTRY

Objectives of the study, definition of the industry and products included, coverage of the study by area and type of enterprises, techniques of analysis employed.

(b) GENERAL STATE OF THE INDUSTRY

A very brief account of the growth of the industry and the existing status in the country or area under study, including a statistical summary of number and size of enterprises, employment, production, capacity, location, etc.

(This section is obviously not required if no manufacturing units exist and the products are not even manufactured by traditional methods in handicraft, household and cottage industries).

II. MARKET ANALYSIS

(a) Domestic market

An outline of consumption trends of the products of the industry, an analysis of factors governing demand and a projection of future demand. Figures should include:

(i) households, (ii) commerce and industry, (iii) government or public agencies, and (iv) exports. The projection of future demand should be done at least over a five-year period.

(b) International market

Factors affecting exports. Coverage of countries of export trade in relation to demand, value of exports

~~types of soil, influence of water table, presence of water bodies, presence of vegetation, impact on soil genesis, presence of human-made features as products of man-made industry, effects of urbanization, effect on sources of quality and type, other and types of products in which no information can be found are suggested elsewhere.~~

(b) ~~Geological and Geological Features~~

~~Basic types of factors for the analysis (e.g. presence or non-preserved) and characteristics of basic geological features, existing activities and processes, lithological units, rock age, mineralogical elements, physico-chemical factors, boundary features and stone occurrences, mining related requirements for continuing functions.~~

~~III. Human Activities~~

~~Human activities and their influence on the feature~~

- (a) ~~Raw materials and components~~
- (b) ~~Power and fuel~~
- (c) ~~Lumber + timber, coalified, lignitized~~
- (d) ~~Petroleum occurrences~~
- (e) ~~Minerals and other stone~~
- (f) ~~Captives and wastes~~

~~IV. Human, HAB and Potential~~

- (a) ~~Human - population density, nature of habitation and human hab.~~
- (b) ~~HAB - nature and use of constructions - residential and non-residential.~~
- (c) ~~Potential - factors influencing nature of habitation and its underlying conditions.~~

27

I. Statistical Survey

A. Industries

- (a) ~~Number, type, size, concentration and density of units - products manufactured for consumption.~~
- (b) ~~Manufacturing processes - visual analysis of present process of manufacture.~~
- (c) ~~Plant and equipment requirements - types or types of machinery and equipment required, sources of supplies and costs.~~
- (d) ~~Requirements and costs of power, fuel, water, gas, etc.~~
- (e) ~~Requirements and costs of materials and components.~~

B. Commerce

- (a) ~~Functions of business required to plan and carry out production.~~
- (b) ~~Functions of cost of production and distribution.~~

II. Statistical methods to be used

(a) Industrial organizations

~~Statistical information required from Government for establishing entry into the industry such as import duties and restrictions on products, import quota for imported and domestic, tax assessments, availability of loans, etc.~~

(b) Industrial Statistics

~~Statistical organization and required for tracking of sales, imports, exports, etc.~~

(c) Market Surveys

~~Statistical market surveys, concentration and market to domestic and foreign markets by trade or industry concentration, etc.~~

(b) [REDACTED]

Answers to questions from members, a short program
of development of the library, etc.

1. What is the present status of the library?
The library is in a very poor condition. It is located in a room which is not large enough to accommodate all the books. The shelves are old and worn out. The books are not well organized and it is difficult to find what one is looking for. There is a lack of funds to purchase new books and to pay for maintenance of the existing ones. The staff is not adequately trained to handle the library work.

2. What are the plans for the future development of the library?
The library will be expanded by adding more shelves and purchasing new books. The staff will be trained to handle the library work more effectively. The library will be made more accessible to the public by opening it for longer hours and providing better services.

3. What are the current issues facing the library?
The main issue facing the library is the lack of funds. The library needs more funds to purchase new books and to pay for maintenance of the existing ones. Another issue is the need to improve the organization of the books and to make them more accessible to the public.

4. What are the current challenges facing the library?
The main challenge facing the library is the lack of funds. The library needs more funds to purchase new books and to pay for maintenance of the existing ones. Another challenge is the need to improve the organization of the books and to make them more accessible to the public.

5. What are the current opportunities for the library?
The main opportunity for the library is to expand its collection of books and to provide better services to the public. The library can also explore partnerships with other organizations to raise funds and to purchase new books.

6. What are the current goals of the library?
The main goal of the library is to provide access to information and knowledge to the public. The library also aims to promote reading and learning among the community.

7. What are the current priorities of the library?
The main priority of the library is to expand its collection of books and to provide better services to the public. The library also aims to promote reading and learning among the community.

8. What are the current challenges facing the library?
The main challenge facing the library is the lack of funds. The library needs more funds to purchase new books and to pay for maintenance of the existing ones. Another challenge is the need to improve the organization of the books and to make them more accessible to the public.

9. What are the current opportunities for the library?
The main opportunity for the library is to expand its collection of books and to provide better services to the public. The library can also explore partnerships with other organizations to raise funds and to purchase new books.

10. What are the current goals of the library?
The main goal of the library is to provide access to information and knowledge to the public. The library also aims to promote reading and learning among the community.

Report No.
Page 28

APPENDIX II

~~GUIDELINES FOR THE SURVEY~~

I. INTRODUCTION

- (a) Objectives and scope of survey, methodology of survey and analysis.
- (b) Brief description of area, including physical and geographical features.

II. DIRECTOR OF CENSUS INVESTIGATIONS

A brief analysis of information on existing industries in the area. The data for each industry should include number of units, capacity, production, capital investment, employment, technology (traditional or modern), size - small, medium or large; the role of manufacturing industry in the economy of the area, the present contribution to employment, national income and growth, should be analysed.

III. RESOURCE ANALYSIS

- (a) Human resources
 - (i) occupational distribution and employment characteristics of the population.
 - (ii) Employment, wage structure, migration to other areas.
 - (iii) Quantity and quality of labour - qualified, unskilled, technical, managerial and supervisory.
 - (iv) Education and literacy, vocational article.
- (b) Material resources, commercial and non-commercial
 - (i) Agricultural, forestry and fishing resources - Forest area, flora, fauna, fish, mineral and groundwater.

- [Redacted]
- (ii) ~~income and related products~~
 - (iii) ~~income, assets, funds, consumption products,~~
~~other industrial non-expenditure.~~
 - (iv) ~~Other incomes.~~

The analysis of ~~non-industrial~~ resources should be related to the major objectives of the survey, that is, industrial development. A broad analysis of the general picture of utilization of resources will be useful. Resources are significant for industrial development that need not be utilized now.

D. Industrial plants, labour market and social services

- (i) General industrial situation, including general utilization and ~~expenses~~.
- (ii) Transportation facilities and services - railways, shipping, roads, water and air transport.
- (iii) Communications - telephone, telegraph, radio, post.
- (iv) Power, water, existing services and their utilization.
- (v) Industrial construction - land and buildings, industrial areas and industrial estates.
- (vi) Educational, cultural and other community services.
- (vii) Capital and working classes and their utilization - workers, technicians, professionals.
- (viii) Non-governmental agencies and their utilization.
- (ix) Trade organizations, associations, other industrial and commercial organizations.
- (x) Training facilities for different trades, occupations, managerial personnel.

This chapter should analyze the general function and basic ~~and~~ organized, efficient plant industrial enterprises under present ~~and~~ if there are measures to be taken and plans to be adopted ~~in~~. The analysis should be directly related to the industrial ~~organization~~ for the area.

58

... .

- (b) Using evidence and reasoning clearly, draw a graph.

(c) Explain and justify your answer.

(i) When you heat water and vapourise, what happens to the mass?

(ii) When you cool vapour and condense, what happens to the mass?

(iii) When you boil water, what happens to the mass?

(iv) When you cool water and freeze it, what happens to the mass?

Figure 1. Electropherogram showing the presence of *Leptospiral* DNA in the urine of patients with leptospirosis.

I conducted a survey of students and respondents, including my teachers, who were randomly selected on the basis of the preceding categories (approximately comprising the categories III and IV), including extracurricular activities for students.

- (a)
 - (b) -
 - (c) .
 - (d)
 - (e) of ,
 - (f)
 - (g)

~~Page 10~~
~~Page 11~~

~~Information of importance might be based on existing demand,~~
~~existing competitive structure, or needs for market and product~~
~~line and components, and additional resources can be obtained from~~
~~commercially feasible sources elsewhere. Timing of establishment~~
~~of contracts and organizational arrangements to implement the establishment~~
~~of facilities or development of management should be considered. For~~
~~the acquisition and location, form, and information on size of unit,~~
~~components of market, technology, materials, labour, skills, etc.,~~
~~and anticipated profitability are important for entrepreneurs~~
~~as well as for management operation. If the industry analysis is~~
~~concluded to be sufficiently comprehensive to justify~~
~~selected assumptions and conclusions, the report should~~
~~contain sufficient further summary before the conclusion can~~
~~be reached.~~

APPENDIX III

CRITERIA FOR A QUALITY SURVEY

1. Selection

Description, type, brands, sizes, cost/batch, manufacture and selling prices of products surveyed. Objectives of the survey, for instance, to know composition of products, to evaluate color and texture function, to expand sales, to reduce distribution costs, etc.

2. Manufacturing process

Physical characteristics and estimated values and uses of colors in each reaction.

3. Standardization and control

Standardization of brands to colors and control, based on sample survey of brands and composition/characteristics. Survey covering the known process, standardization reactions, types and other factors, type of products, etc.

4. Specifications

Characteristics of composition products, differences in characteristics and selling prices of different brands, differences in quality, weight, packaging, ~~newspaper~~, etc.

5. Distribution analysis

Estimated number of distributions and relationship to sales areas, average size of distributor and retailer as percentage of total areas.

6. Standardized product

Characteristics products used, relation and distribution quantities, characteristics and selling prices of different brands, characteristics and differences of different stages, characteristics and methods.

7. Standard and Specification Function in Product Design

- (a) Technical characteristics
- (b) Style
- (c) Price
- (d) Quality
- (e) Other features

8. Combinations

- (a) Possibilities of combining distribution
- (b) Separated distribution centers and outlets
- (c) Separated improvements to the quality of products, distribution, design, size, packaging, stability and advertising, protecting outlets and positions.

~~SECRET~~
REF ID:

~~APPENDIX D~~

~~GUIDELINES FOR A LOCAL STATEMENT OR A REGIONAL STATEMENT~~

A. General Description

B. General description of requirements

(In relation to capital, labour, materials, machinery and equipment requirements. But an estimate, but a qualitative statement, supported by location).

C. Market analysis

Size of the market

Sales channels and outlets

Geographical extent of market

Competition

Factors needed for plant described

D. Production Requirements

1. Annual capacity - one-shift operation

2. Capital requirements

(a) Plant capital - land, building, machinery, equipment, fixtures, total.

- Description and specifications of machinery and equipment (with cross reference to Section B layout).
- Comments on sources and availability of machinery and equipment.

(b) Working capital - direct materials, direct labour, manufacturing overhead, administrative costs, contingencies, cash out, total

(c) Total capital

3. Materials and supplies - annual requirements, annual cost

- comments on specifications and availability.

4. ~~Raw, fuel and other - initial requirements and annual cost.~~

5. ~~Labour~~

- (a) Number and types of unskilled and semi-skilled staff, skilled and unskilled labour required.
- (b) Normal costs of direct and indirect labour.
- (c) Comments on training costs and norms.

6. ~~Total annual costs and sales revenue~~

- (a) Annual costs - Direct materials, Direct labour, ~~overheads~~ (supplies, power, water, indirect labour), administration (or costs (hiredout, insurance, legal and audit charges), contingencies, other costs (communications, freight, travel) allowances, and costs, depreciation on fixed capital).
- (b) Annual sales revenue - Estimated unit selling price per unit multiplied by number of units produced per year.

7. ~~Establishment and location of plant/factory~~

(Report to be given according to needs)

APPENDIX I

GUIDELINES FOR AN INDUSTRIAL SURVEY QUESTIONNAIRE FORM

I. INTRODUCTION

(a) **Objectives**

The objectives or objectives to be achieved by one or several industrial estates should be clearly enunciated.

(b) **Scope**

The area or region being considered - relationship with overall regional, economic and industrial planning.

II. INDUSTRIAL SURVEY

(a) **brief description of area, including physical and geographical features.**

(b) **brief analysis of information on industrial development, existing industry concentrations, types of industries, number of enterprises, value of products, earnings, etc.**

(c) **Major factors hindering industrial development (like up side) (i.e.) how industrial estates are expected to assist in industrial development).**

III. INDUSTRIAL CRITERIA

(a) **Proposed industries, type of products, nature of output, size of enterprises and demand for factory accommodation. Selection of industries, for calculating the demand for factory accommodation will have to be based on existing ~~area~~, existing accessible resources, new demands for ~~area~~ and ~~area~~ products and components and additional resources and estimated from technically feasible maximum utilization. A survey of markets and resources will be necessary.**

(b) **Supply of labour**

Demand of manpower and unemployment, representation of employable population, availability of skilled labour and technically trained personnel, training requirements,

2000
2000

(c) Markets and communications

Availability of different locations to markets for the products to be manufactured. Influence of transport costs to cost of the products. Existing facilities available.

(d) Supplies and services

Availability and cost of raw materials, supplies and services.

(e) Capital and entrepreneurship

Advantages of the suggested location or locations for prospective entrepreneurs. Banking and other financial institutions.

(f) Utilities

Existing and prospective development of power, water, sewage, gas and other services. Cost of utility installations and service charges for their use.

(g) Social services

Housing, education, recreation facilities.

IV. PREFERENCE CRITERIA

(a) Climate

(b) Land availability and costs.

(c) Site suitability

(d) Availability of building materials and labour.

(e) Economic installation of utilities

(f) Integration with regional planning and industrial and residential zoning

V. CONCLUDING AND SUMMARY POINTS

(a) Number, size and location of industrial estates

(b) Number of factories, size of factories and products to be manufactured.

(c) Proposed layout of the estates or estates

(d) General facilities and services to be provided

(e) Financial services facilities to be provided

(f) Education and labour policies

- 1. Industrial programme**
- (1) Estimated capital costs of vehicles or vehicles and equipment
(including cost of labour)
- (2) Estimated operational costs
- (3) Overall estimates of income and expenditures, and of expected
return on investment (short-term and long-term)
- (4) Sources of financing
- (5) An overall assessment of benefits to be expected from the
industrial estate programme, e.g., employment, industrialisation
(etc., contribution to local tax revenue, etc.)



28.1.72