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BOLIVIA

BRALL-SCALE INDUSTRY SURVEY

Prepared by

World Bank/UNIDO Co-operative Programme

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id.78-4881

STALL-PLATE TREETER Y TALEYER

CURRENCES DE OUTVALAISMEL

US\$ 1 = 36 20 (Bolivian peace) %b 1 = US\$ 0.05

Since 1972

ABBREVIATIONS

AEL	· Artioancy Refinencing Line
BAPTNSA	: Banco de Elimandizaiento Industrial
BARESTA	: Banco del Estado
BIBSA	: Bonco de Inversión Boliviano S.A.
BISA	: Bauco Industrial S.A.
CBF	: Corporación Boliviana de Fomento
CNI	: Cimara Nacional de Industrias
CODESUR	: Corporación Financiera del Sur
Cofinsa	: Corporación Financiona do Santa Cruz
COMBORIA	: Comité Boliviano de Fomento Lanero
COMPECT.	: Corperacion Minera de Dolivia
CONEPIAN	: Consejo Nacional de Economía y Planificación
ENFE	: Empresa Nacional de Ferrocarriles del Estado
CONEPLAN	: Consejo Nacional de Economía y Planificación
FBD	Fundación Bolivisoa de Desarrollo
FOMEX	: División de Fomento de los Exportaciones
POMO	: Servicio Nacional de Fonsación de Mano de Obra
FRI	' : Fondo de Refinanciamiento Industrial
IDB	: Interamerican Dovelopment Bank
ibrd	I International Bank for Reconstruction and Development
DEC	International Finance Corporation
110	: International Labour Organization
INALPRE	: Instituto Nacional de Pre-inversión
INBOPIA	: Instituto Boliviano de Pequeña Industria y Artesanfa
INI	: Instituto Nacional de Inversiones
MICT	: Ministerio de Industria, Comercio y luriamo
<u>881</u>	: Small-Scale Industries
UNDP	: United Nations Development Programme
UNIDO	: United Nations Industrial Development Organization
USAID	: United States Agency for International Development
трув	: Yacimicaton Petroliforos Fiscales Bolivianos

SEALL-SCAIR INPUSTRY IN BOLIVIA

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THTRODUCTION

Whis report was prepared by a UNIDO mission (Norld Bank/UNIDO Co-operative Programme), which visited Bolivia during the period 7 November to 4 December 1977.

The mission was composed of Meesrs H. Molina industrial engineer and mission leader) h. Thorson (financial analyst) and J. Patchte (industrial economist). Mr. J. Mirzki of JBAD accompanied the mission during the first two weeks in the field, helped plan mission strategy, and provided advice on sources of information. A Bolivian conculting firm was bired to administer a questionnaive to a selected mample of small industrial enterprices in La Paz and to anyange contacts and interviews with representatives of public and private institutions. Mission members administered the questionnaire directly in 6 other major cities.

The Ministries of Planning and Coordination, and of Inductry, Commerce and Tourism acted as Eolivian counterparts. Logistic support was provided by the Banco Industrial S.A. and the Departmental Development Corporations. The National Chamber of Industries and the Departmental Chambers of Industry were most effective in helping to select and contact companies that were visited by mission members.

Special acknowledgement is given to Messers. A. Valdez, Undermecretary of Planning and Coordination, and Mr. R. Arrivillaga, IERD's Resident Representative in Bolivia, for their help in chearing the mission with the Government and in making preliminary preparations. Thanks are also extended to all other Government officials, representatives of financial institutions and managere of enterprises visited for the high level of cooperation received.

1. SUBBARY

For the purposes of the mission and in agreement with Government authorities and private scotor representatives, small-scale industries (SST) were defined as enterprises having fixed assets between USS 2,500 equivalent and USS 100,000 equivalent, excluding hand and baildings, and between 5 and 25 employees. For purposes of definition, the mission recommends to increase the number of employees to 50 and to up-date the limit for fixed investment periodically by means of relevant indexing.

Bolivian industry is in an early stage of development. This fact is reflected by its share of around 12 percent in GDP and less than 7 percent of the country's total labour force during the past 5 years. However, SSI are an important and dynamic segment of the whele industrial sector, contributing about 35 percent of industrial value added, 32 percent of industrial employment, and 16 percent of gross investment in industry. The main SSI activities are the manufacturing of consumer goods, such as food, beverages, wearing apparel, and wood and leather products.

Almost the entire production of SSI is destined to small markets in the vicinity of the production facilities. Due to the land-locked position of the country, poorly developed surface transport facilities and high production costs, exports of SSI products are limited mainly to handicrafts.

A sample of 97 companies was visited; however, 18 were found not to comply with the established parameters for SSI. In general, SSI in Bolivia have a one-man or one-family ownership with all managerial, administrative and production responsibilities under one person. As a consequence, and to avoid the introduction of middle management, companies have to date deliberately remained small, a fact reflected in the average age of 16 years for the companies included in the sample.

The manager-owner is typically well-versed in the simple production techniques used in Bolivia, but lacks formal training and needs technical assistance in the fields of financial, operational and industrial management. In general, workers are trained by the companies by which they are employed and are considered shilled when they have more than 5 years of on-the-job experience. They demonstrate the ability to learn quickly but show a disinclination to work according to a regular schedule. Lab rates are among the lowert in Latin America, and the legislation pertaining thereto is confusing and out-dated.

Due to a chronic chortage of working capital, SSI usually bey raw materials and supplies on a deily or weekly basis from importing firms, thereby involuntarily renouncing the tex exemptions for which they would often be eligible if they imported directly.

Capacity utilization of plant and equipment is 40 percent on the average due to the limited market, shortage of working capital, production bottle-mecks, mechanical break-downs, low productivity of labour, and low quality of products. Transport problems of both raw materials and finished products also contribute to low output. Many of the smaller companies operate in rested presises or in a part of the owner's household; consequently, plant lay-out, material flow, and confort and safety for workers are matters that show neglect. Production equipment and machinery are usually old and/or second-hand and lacking in repair and maintenance.

Accessibility to industrial credit is restricted to SSI that are able to cope with the relatively short maturities and difficult collateral requirements imposed by both public and private banks. Banks are reluctant to work with SSI because of the risks perceived, because of the costly processing of often incomplete and ill-prepared credit applications, and because of the unattractive interest spreads on existing lines of credit. The mission recommends the establishment of a special credit line for SSI in the magnitude of USS 30 million for fixed investment and permanent working capital. Among several existing alternatives, the Bolivian institution best canipped to administer this credit line is believed by the mission to be the Banco del Estado (BANESTA). In addition, support is recommended for the proposed Central Bank/USAID guarantee fund so that its benefits may be extended to SSI in unban areas. Such support could involve the pledging of up to US\$ 3.75 million, thereby doubling the capacity of the fund that has already been proposed. The mission recommends a programme of special assistance to SSI in the proparation of credit and incentive applications and nominates the Bolivian Institute for Small-Scale Industry and Artisanny (INBOPIA) as the most appropriate institution to provide this type of assistance.

A need for technical anniations in basic business matters including financial surgement and consorcialization was observed by the mission as an adjunct to the providing of new credit facilities. Assistance in the proparation of boundble projects is also generally needed by SST, and the Bollvian institution recommended to administer these services is once again INBOFIA. However, this institution would need to be reorganized and strengthened for such an important task. A fund for technical assistance to the extent required would call for a minimum contribution of USS 500,000 (equivalent to 10 man/years).

The mission also recommends that independent management centers be established with the initial help of the Government. These centers should offer training in basic operational, administrative and industrial management.

The Government has no policy for SSI, a fact reflected at all institutional levels, where a preference for large industrial enterprises is apparent. Existing institutions dealing with SSI are not properly oriented and lack sufficient resources and staff to have a meaningful impact.

Given the fact that a healthy and modern SSI sector is necessary for further industrial development in Bolivia, the mission recommends giving special attention to SSI in the country's development plans. It also recommends modifying existing legislation or enacting a special incentives law, possibly of a temporary nature, for all existing and new SSI.

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CHARACTERASTICS OF SMALL-SCALE IN MISTRIES IN EOLIVIA

.1. <u>DEFINITION OF SST</u>

The official definition used by the Ministry of Industry (both INEOPIA and the Directorate of Industries) restricts SSI to enterprises having fixed assets ranging from US\$ 2,000 to US\$ 50,000 equivalent. For the National Chamber of Industry, SSI fall within their Third Category Mombership, which is defined as having paid-in capital between USS 2,500 and US3 30,000 equivalent. One must recognize that these figures have not been updated since 1974, and that they do not reflect today's values of money and assets. Therefore, the Ministry of Planning and Coordination, private and public sector institutions dealing with SSI, together with as well as the mission members, agreed in the course of a meeting at the beginning of the mission to raise the upper limit on fixed investment to US\$ 100,000. This definition excludes land and buildings, because those assets are often not ouned by SSI. Moreover, employment (workers and fulltime administrators) was taken as a second parameter for SST; the limit was tentatively out between 5 and 25 persons, excluding the owners themselves.

As a result of the above, articans were defined as enterprises having an investment in equipment of less than US2 2,000 equivalent and less than five employees. They uses excluded from the survey. The pre-scheetion of qualifying SSI to be visited and interviewed by the mission was difficult due to insufficient statistical data on investment and exployment. Out of 97 enterprises that were visited and evaluated e. the basis of real value of equipment and actual employment, only 79, or about 80 percent, complied with the criteria regarding value of fixed investment. The employment limitation of 25 persons was not by only 55 enterprises, or 57 percent of the sample. However, because of labour-intensive preduction methods and owner-management characteristics, 25 companies with more than 25 employees were finally included in the survey.

سارت م

On the basis of the mission's experience, it is recommended that the SSI limits on investment value be updated periodically in accordance with suitable indexing. Additionally, an increase in the upper limit of employment for SSI to 50 persons is recommended. Without such an increase, a large number of firms having the general characteristics of SSI would be automatically excluded.

2.2. THE INDUSTRIAL SECTOR IN THE BOLIVIAN EXOLORY

Statistical information, which are available and which continue to be used in World Bank reports and Government projections for the current Five-Year Plan (1976-1980), should be accepted with reservation. Many of these data, although consistent within themselves, are in the process of being revised by a number of agencies: by the Central Bank for economic data such as greas production value and value added; by the Central Statistical Office for population $\frac{1}{2}$, labour force and urban employment; and by the Ministry of Labour for distribution of employment in manufacturing industries in urban areas.

Within official statistics, data on SSI are usually combined with data on artisanry production. Moreover, most of these data are taken from official questionnaires which, for the obvious reason of minimizing tax liability, tend to understate capacity, investment, production value and value added. The mission has therefore prepared a new set of data on SSI based on revised efficial economic data, as yet unpublished, and on the mission's findings in the course of interviews with 79 Bolivian small-scale enterprises.

^{1/} The 1976 Census established that Bolivia has a population of 4.6 million as opposed to the 5.6 million that had been estimated on the basis of the 1972 Census.

Bolivia is at an apply stage of industrial development. In 1976, manufacturing industry employed less than 7 percent of Bolivia's total labour force of about 1.5 million. Conditions prevailing in 1976 can be summarized as follows:

TABLE HO 1

... 6 ...

BOLIVIA: Selected Recommende Indicators for 1976

	Value A	dded	Gross Product	ion Velue	Employmont
Economic Sectors	Sb million	Percent	Sh million	Percent	1000 percons
Agriculturo	10,00 6	17.0			740
Commerce, Hotels, Rostaurants	11,371	19.3			79
Mining	4,887	8.3			46
Energy, Transport, Communications	5,232	8.9	·		46
Manufacturing	1.370	12.5	16,785	100.0	<u>103</u>
Food/Baverages	2,623	4.4	7,031	41.9	
Textile/Inather	1,677	2.8	3,641	21.7	
Chemicals	1,722	2.9	2,532	15.1	
Other Sub-sectors	s 1,348	2.4	3,581	21.3	
Other Scotors	20,083	34.0			186
Total	58,949	100.0			1,200

. . . .

Bources

Unpublished statistical data of the Coutral Bank, 1976 census on population, 1977 sample consus on urban employment and households. <u>Annexes 1 and 2</u> show the most recent data on population and urban and roral labour force respectively. <u>Annex 3</u> gives details on GMP and overall economic growth since 1970. According to these data, Bolivie's population totalled about 4.65 addition in 1976, growing at an annual rate of about 2.5 percent. The Bolivian economy grow at an average rate of 6 percent per year during 1970-1976; the monifacturing sector grow slightly faster at an average rate of 7.2 percent per year. These results were achieved during a period of political stability, of increased world market prices for Bolivia's main exports (minerals and non-ferrous metals) and of fevourable vesther conditions for agricultural products.

At the end of 1977, a degree of uncertainty way introduced with the amouncement of general elections scheduled for mid-1978. This could possibly reduce prospects for economic growth, at least during 1978. However ongoing efforts to increase world market prices for hydrocarbons, coupled with an increase in domestic production of hydrocarbons as well as of eggetcultural and industrial goods, are expected to counterbalance any negative effects, arising from political uncertainty. The Bolivian economy may therefore, continue to grow at a steady rate of about 6 percent per annum as during the previous fiveyear period.

<u>Annex 4</u> and the summary table on the previous page clearly indicate that consumer goods continue to be the main products of Bolivian manufacturing industries. Food products and beverages account for about 42 percent of industrial output, and textiles and leather products for about 22 percent. The chemical industry as the third largest sub-sector, accounts for about 15 percent of industrial output.

The most recent investigations into employment in urban arous, where most of industrial labour is recruited, is shown in <u>Annex 5</u>. These figures indicate that about 236,000 percens, or 31 percent of the total urban labour force, are presently under-employed, i.e. are subject to irregular working hours and fluctuating, generally low income. The unemployed constitute about 60,000 persons, or 8 percent of the labour force. These figures also show the important role that monufacturing industry, and especially SSI, will have to play to absorb around 300,000 persons who are at present either under-employed or unemployed in urban areas. Information on the total number and size of bolivian industrial enterprices is incorplete and matrodictory. The United Registry of Industries eminterined by MCCT is incomplete. Despite the fact that registration is obligatory, an estimated 30 percent of all enterprises, especially the smaller ones, have fielded to easily. Membership in the Wattened Chumber of Industries covers small, mediam and large industrial enterprises and excludes estimates of paid-in cepital. In 1976, total membership was 920 enterprises which the Chamber estimates to represent about 50 percent of all existing industrial enterprises, excluding artisens. These estimates are close to the mission's findings, which have been derived from employment data.

Official data on industrial employment are equally incomplete and contradiciery (see <u>Arrex 6</u>). Starting with total industrial employment (103,000 persons in 1976) and applying average employment rigures for artisanry and small-scale enterprise (3.3 for articanry and 21 for SSI). the mission arrived at the following break-down:

TABLE Nº 2

BOLIVIA: Mumber of Industrial Enterprises and Employees

Size of Enterprise	Number of Enterprises	Number of Employees
Large and Medium	3 50	20,000
Small-Scale	1,600	33,000
Artisanry	15,000	50,000
Total	16,950	103,000
	- 英海科科学会社	Ballan 197 : 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Source: Mission ostimates

2.3. THE IMPORTANCE OF SSI IN FIF BOLIVIAN ECONOMY

The mission attempted to determine the degree of SSI participation in Bolivia's economy by estimating its share in certain major economic parameters.

The share of SSI in grous domentic product (GDP) was around 4.4 percent in 1976. During the same year, the SSI share in total value added of meanifacturing industry was in the order of 35 percent. This figure is relatively close to an estimate made by INBOPIA : in 1972. The available data are summarized in the following tables

WARTH Nº 3

POLIVIA: Chare of SST an GDP

	US\$ III	11100
	1970	1976
Gress Domostic Product	2,079.3	2,947.5
Valued Alded by Manufooturing Industry	248.3	368.5
Valued Alded by SSI	n. a.	129. 3 [*]
	Parc	ent
	1970	1976
Valued Added by Nanufacturing Industry/	CD2 11.9	12.5
Value Added by SSI/CPP	n.a.	4.4
Value Added by SSI/Velued Added by Menufacturing Lodustry	n • čte	35.1

* This figure is calculated by multiplying the average annual sales per small-scale enterprise (UES 183,000 equivalent) by the total estimated number of small-scale enterprises (1,600), in turn multiplied by 43 percent value added. The 43 percent figure was derived from data collected from companies interviewed by the mission. Source: National Accounts and mission estimates

The official figures in respect to Bolivia's Jabour force and industrial employment required adjustment on the basis of the results of the 1976 National Census on Population. In 1976, Bolivia's Labour force totalled about 1.5 million, of which about 50 percent were located in urban areas. Employment in manufacturir industries was about 7 percent of total labour force, and employment in SSI almost one third of employment in manufacturing and about 2 percent of the total labour force. This is summarized in the following table:

TAPLE Nº 4

BOLIVIA: Share of 551 in Total Labour Force and in Labour Force in Nanufacturing Sector

	Thousands	s of Persons
•	1970	1976
Total Labour Force	1,264.4	1,510.5
Employment in Manufacturing	88,8	103.0
Employment in SSI	25.0	33.0
	P 0	ercent 1970
Employment in Manufacturing/Total Labour	an a	6.8
Employment in SSI/Total Labour Force	2.0	2.2
Employment in SSI/Employment in Manufactu	uring 28.2	32.0
Barra - Antonio		

Source: Fivo-Year Economic and Social Development Plan (1976-1980)

In 2976, be concreased investment in meantactaving industry, both public and primely, accorded to UC 121.5 million equivalent, of which the minutes obtained an investment of UCC 19.3 million equivalent, or around 16 percent, in another bale industry. The 1972 figure on incremental industrial investment is only about 25 percent of the 1976 value, while the share of SSI in the total is more then 36 percent or twice that of 1976. These figures indicate a relative increase in investment in madium and large-scale meanfacturing industry during the pericd 1972-1976. Data are summarized in the following table:

WABLE Nº 5

BOLTVIA: Inventment in Manufactuaing Industry

	UC2 million		Percent	
	<u>1972</u>	1976	1972	1976
Total Incremental Investment in Hanufectoring Industry	30.0	121.5	100.0	100.0
Investment in SST	11.0	19.3	36.7	15.9

Source: Five-Tour Plan for Economic and Social Development, Operational Plan 1977 and Volume 2, and mission estimates (social land)

There is a pavoity of data available on small-scale industry, and therefore the mission has estimated investment in SSI by the following method: The average value of assets per gmall-scale enterprise in the sample was found to be about USS 141,000 equivalent. When multiplied by the total mumber of companies (1,600), total assets of SSI should be valued at about USE 225 million equivalent. Future expansion, estimated at a conservative 7 per cent par annua, would result in an annual investment of UE\$15.8 million equivalent Added to this is the annual investment for replacement of existing assets. The sample survey showed that the investment in machinery and equipment is equal to about 30 percent of total assets for SSI. It was also found by the mission that muchinery is used for a relatively long period of time, and an average lifespan of 20 years has been assumed. Using these assumptions, the annual amount required for replacement of equipment should be in the order of US\$ 3.4 million equivalent. Therefore, annual investment in SSI, for both new and replacement assets, is estimated to be around USS - 20 million equivalent.

It is worthwhile noting the share of various sub-sectors of SSI in total employment, in the number of registered enterprises, in the value of gross production, and in value added. To do this we have assumed that those companies which are registered with INPOPIA are representative of SSI in Bolivia. The sectors of major importance are food, textiles, and wood. Chemical products are also important in terms of gross production value and value added. Details are given in the following summary table: TABLE Nº 6

E	mployment	No. of Registered Enterprises	Grops Prod. Value	Value Adad
	*	· %	~ %	1
Food/Boverages	22.5	20.2	38.0	19.9
Textiles and Leather	15.6	21.6	17.7	17.4
Wood and Furniture	28.8	23.5	15.0	25.4
Paper and Frinting	6.0	7.8	4.1	8.3
Chemical Products	5.6	4.1	13.7	11.0
Mineral Froducts	5.4	6.1	3.0	5+7
Non-Ferrous and Ferrous Metals	6.8	5+8	2.8	6.4
Englocoring	4.4	5.8	3.4	3.8
Others	4.9	5.1	2.3	2.1
Total .	100.0	109.0	100.0	100.0

WoldWids Statistical Data on Sub-sectors of 201, 1976

Source: INDOPIA, unpublished draft on SSI and Artisan Workshops

2.4. MEGIOMAL DISTRIBUTION OF BOLIVIAN SSI

Generally, industry is concentrated in and around urban centers, where infrastructure is more developed in terms of communications, power, water, newsrage, banking, community services, etc. Proximity to the main markets and to labour are also determining factors for the concentration of industry in and around cities and larger villages.

The greatest concentration of SSI at the center of a city was found in La Paz, whereas in the case of Cochabamba and Santa Cruz dispersion of industries to the peripheral areas is beginning to occur. Relatively= speaking, there is less industry in Oruro, Sucre, Tarija and Potosi, while in other towns, villages and in rural areas SSI is virtually non-existent. In rural areas, mainly large agro-industries, such as sugar mills or vegetable eil extraction plants, are to be found. The following table shows the distribution of employment by Department for the sample SSI firms interviewed:

TABLE 11º 7

BOLIVIA: Employment by Department for Sumple SEI

- 75 ·

Departmentm	ESI Employment	Firms Visiled
	<u>1975</u>	by Mission
La Paz	61.6	48.0
Goohabamba	17.5	21,0
Sunta Cruz	11.4	11,0
01110	5.3	6.0
Chuquisaca	2. 5	5.0
Tarija	0,8	6.0
Potosi	0.6 ·	5.0
Beni	• • 3	-
Pando .	. .	● 1
		•
SOBAL	100.0	100.0

Bearcos Ministry of Labour, ""Labour Statistics" and mission visits to selected SSI. 2.5. SUBMENT BASIDARS

> As described in the mission's terms of reference, a nample of 79 onterprines, falling within the agreed definition of SSI and representing the small-scale industrial activities (food processing, most important toxtiles and wearing apparel, leather and leather products, wood and wood products and building materials) were selected. Mission members, accompanied by Bolivian goanterparts, visited companies in La Paz, Santa Craz, Cochabasha, Ornro, Potosi, Tarija and Sucre, as indicated in Table 1 of Statistical Annex 7. Which also contains information on age, size, type of employment, industrial activities, volume of sales, and technical evaluation of the sample firms.

2.5.1. GENERAL CHARACTERISTICS

The average age of the 79 companies was found to be 18 years. The average number of workers was 21. Other characteristics and comparable data from Peru, as an example of another Latin American country in the course of industrial development, are indicated in the following tables

TABLE N 8

A Communison of Characteristics of SSI in Bolivia and Para BOLIVIA:

· .	BOLIVIA (1976)	PERU (1975)
Fixed assets per worker (USS)	2,100	4,600
Gross output per worker (USS)	8,9 50	13,700
Value added per worker (US\$)	3 ,100	6,400
Value added by SSI as a percentage of value added by manufacturing industry (%)	35.1	46.7

Sources

Mission interviews with Bolivian SSI; IBRD Small-Scale Industry Survey Mission to Poru (December 1977)

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the above data phone clearly the more advenced stage of Peruvian SST as compared with Bolivian SST in terms of productivity and value added $\frac{1}{2}$.

In 95 percent of the cases, the Bolivian companies interviewed were found to be owned and managed by individuals or families, and the others, jusually the largest comparies in the cample, have no more than 5 pretners. Products manufactured are northy concumer goods, of medium and low quality, mometimes of artican type. Generally speaking, equipment is old, sometimes second-hand, and efter poorly maintained. The owner is in most cases the only source of icchnical training for employees. Capacity utilization is on the average 40 percent, the main reasons being the limited demand for products and the chortage of working capital.

MARKETING

Due to the disadvantages of being a land-locked country, with rugged topography and inadequate infrastructure, the markets for Bolivian industry are necessarily limited to the urban conters where the production units are located. Existing surface transportation systems are inefficient, unreliable and costly. Contraband and production from non-registered and thus non-tax paying enterprises (especially artisans), make it hard for registered SSI to compete. A number of smaller companies operate on the basis of special orders only and net for stock, thus increasing the cost of production; in this case the financing of raw materials is made casier by the fact that the down-payment required can be used for this purpose. These who produce for stock frequently face the problem of insufficient working capital, even though seles are made on a cash-basis. In exceptional cases, interest-free credit up to 60 days is granted to customers. Commercial letters of oredit are generally not used because of the difficulties experienced in rediscounting them.

1 In Form, SSI are defined as private entorprises with annual sales of up to US\$ 360,000 equivalent and a maximum of 49 employees (see IBHD Small-Scale Industry Survey Mission to Poru, report dated December 1977).

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Sub-contracting arrangements between large corpanies and SSI are utilized in other countries as a means to premote industrial development, and especially the development of SSI. In Delivia, however, sub-contracting is not yet practised even by large Government-owned enterprizes such as Corporation Einera de Bolivia (COETEDL), Macimtentos Petrolíferos Fiscales Bolivianes (NPFB) and Empresa Nacional de Ferrocarciles del Estado (EMPE). On the contrary, these entities still accept merchandise from SSI on a commission basis and pay on an irregular schedule, sometimes up to 6 months after consignment.

Exports of SST are limited to handlerafts, some food and leather products and wearing apparel. The enterprises visited exported less than 3 percent of their combined sales in 1976 (see Table 8 of Statistical Annex 7).

Enterprises with high quality products do not face marketing problems. Their limitations to increased sales are related to the lack of resources for financing additional equipment and permanent working capital.

2.5.3. PROCUREMENT

The same inefficient transportation systems that impode delivory of products to more distant markets make raw material supply difficult and expensive. SSI located in La Paz, Cochabamba and Santa Cruz can purchase raw materials from local importing firms, while those in smaller towns such as Potosi and Sucre are often penalized by being obliged to transport their raw materials from far-away importing centors.

As a result of limited working capital, some small entrepreneurs are unable to import raw materials directly from abroad in the relatively large quantities that represent minimum orders. Instead they are obliged to purchase on a daily or weekly basis from importing firms, and in so doing, they are unable to take advantage of customs duties exemptions, even when eligible under existing regulations. Additionally, SSI must usually meet eash-payment conditions, although they sometimes enjoy short-term credits of up to 60 days at an interest rate of 1 to 3 percent per month. The general rule is to buy raw materials and other inputs for eash and sell finished products for cush. Inductries processing local agricultural raw materials complain of high prices, low quality and limited quantities, due in part to the early stage of development of modern agricultural and animal humbandry methods. In addition, illegal exports of raw materials of the best quality (e.g. hides to Argentina) reduce their availability at reasonable prices for Bolivias industry. Another factor depriving small industrialists from using high quality haw materials is the lack of storage and measoning facilities (e.g. from the set of the set of the set of the best prices for bolivias industry. Another factor depriving small industrialists from using high quality haw materials is the lack

As might be expected, industries producing traditional consumer goods, such as food and cotton textiles and wearing apparel, are less dependent on imported raw materials than are enterprises producing noc-inaditional more sophisticated products, such as chemicals, metal and electronic products. Table No. 9 indicates the origin of raw materials used by the main industrial branches of Bolivian SST.

TABLE Nº 9

BOLIVIA: Local and Imported Raw Material by Branch of SSI, 1975

SSI Branch	Local Nav Material Percent	Imported Raw Naterial Percent
Food, Beverages, Wood + Wood Products, Furniture, Non-Metallic Minerals	Ej - 100	0 - 20
Clothing, Leather and Leather Products, Non Ferrous Metals	50 - RO	20 - 50
Shoes, Chemical Products	20 - 50	50 - 80
Printing and Publishing, Chemicals, Glass Products, Motal Products, Mechanical and Electrical Equipment	0 - 20	• 80 - 100

Source:

JNBOPIA, unpublished report on SSI and artisan type production in Bolivia.

-5-4- MANAGEMENT

As is the case in many developing countries, a characteristic of SET in Bolivia is one-man or one-family management. Even in the case of a family-counced enterprise, the tendency is for the strongest personality (generally the oldest man) to assume all functions and responsibilities inherent to the operation, from the acquisition of raw materials and the hiring of personnel to the sale of finished products and the keeping of elementary financial and production records. Sometimes the same person is also involved in actual production, in operating machines and tools and even in carrying materials.

A result of this situation is resistance to growth, because beyond certain limits it is not possible for one porson to control all things. Instead of introducing middle management and thus evolving into medium-scale industry, enterprises are deliberately kept small or within what is considered to be a "manageable size", indefinitely. Therefore, and taking into consideration the limited market and the relatively low capacity utilization, it is not surprising that 51 percent of the companies visitied by the mission were found to be more than 10 years old, 31 percent to have existed for more than 20 years, and the average age to be 18 years.

The concentration of authority at the administrative level is shown by the fact that, within the sample, the average number of persons with administrative capacity is 1.5 per enterprise, whereas the average number of workers engaged in production is 19.5 per enterprise. These results do not consider the use of part-time accountants and other part-time help, which is generally found to be the practice.

Normally, the manager-owner is a person with many years of experience in production (a competent carpenter, sho c-maker, tailor, etc.), well-versed in the simple production techniques that are characteristic of SSI in Bolivia. On the other hand, he usually lacks formal management training, and his practical experience is often affected by misconceptions. He usually does not know the basic elements of accounting, production planning and control, and marketing. Financial statements are generally prepared by outsiders for the benefit of Government authorities and mirely reflect reality.

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Unfortunately, financial data are usually not used as tools to measure performance and to signal tibuble spots, but rather to minimize tax obligations.

The organization of the production process was generally found to be inefficient, with resulting waste and accumulation of materials in process along the production lines. Low product quality and high production costs are the result of the poor management observed.

As a general rule, no efforts are made to open new warkets in neighbouring. towns, regions or countries, partly due to a non-agressive management attitude.

The generally low level of wanagerial capability within SSI could be partially raised by Government-sponeored extension services, which at present do not exist in Bolivia. The most urgent needs fall within the following categories:

<u>Financial Management</u>, including general, cost and cash accounting. <u>Industrial Management</u>, including product design, quality control, materials utilization, materials flow, production techniques, industrial safety, and plant maintenance and repair.

<u>Operational Management</u>, including procurement of raw materials, marketing of finished products and market research. Project preparation, compliance with Government requirements, and knowledge of business legislation should also be included in this category.

This type of technical assistance needs to be organized by the Bolivian Covernment through a public institution, with help from international organizations. Since many Bolivian SSI are already accustomed to paying for accounting services, it is conceivable that a nominal fee might be charged to the beneficiaries. However, even if assistance is given on a free-basis, the costs to the Government would be compensated by increased employment, increased income tax revenues, and a healthier SSI sector.

Another important contribution would be the organization of "Management Centers", where seminars on the most important management, administrative and production techniques, at the appropriate levels and using competent instructors from Bolivia and abread, might take place periodically to complement the practical experience of Bolivia's small-scale businessmon. At present, there is no public or private institution engaged in these activities. It is also a field where international assistance sight play an important role.

In general there is a lack of confidence on the part of smallscale entropreneurs in Government authorities, who give the impression that they are mainly interested in increasing tax-revenues and not in providing assistance to the business community. This is a situation that will take some time to change, requiring a real effort on the part of public institutions to show that they can be useful as channels of financial and technical assistance. It is an obvious recommendation that public institutions chould try to improve their image by becoming more efficient.

2.5.5. LABOUR, SMILLS AND MACES

The sample results show that 29 percent of the workers are skilled, 39 percent semi-skilled, and 25 percent non-skilled. As a matter of definition, a skilled worker is a person with more than 5 years of onthe-job experience, usually as a machine operator, and with the ability to perform his work with a minimum of supervision. In 99 percent of the cases, he has been trained in the same enterprise in which he is now working, and where he was initially recruited as an apprentice. Usually he has no formal training.

It appears that most Bolivian workers have the ability to learn their trades quickly. Nowever, as in other Latin American countries, their some of responsibility is questionable, and they are often unwilling to accept regular working hours. Therefore, when a Bolivian entrepreneur speaks of lack of "qualified personnel" he is often referring to a lack of responsibility on the part of his personnel. Industrialists report that absenteeism is high among workers and is one of the reasons for low capacity utilization. They also cite carelessness, indifference to the company's welfare, and continuous domands for increased compensation and fringe benefits as other negative attitudes. On the other hand, some of the smaller companies and articen shops are known to pay wages well below the legal minimum, to avoid paying bonuses, and to retain social security contributions. Under such conditions, it is hard to find workers with a sense of responsibility and even harder to justify high profits when they are obtained by the above methods.

There is disavray in the existing labour legislation. Minimum wages are addom revised, and the preferred method to increase compensation is to add another boxus to the extent that wages themselves are only a small part of total compensation. The system has many leopholes and leads to confusion and minimum revision. Despite the increasion of esfound in the information obtained directly from the companies⁴ managers, the most frequent ranges for monthly labour compensation, including fringe benefits, are shown in the following table:

TABLE Nº 10

BOLIVIA: Monthly Labour Compensation in Small-Scale Industries

	Bolivian Perot	U.S. Dollars equivalent
Skilled workers	3,500 to 4,500	175 to 225
Semi-skilled workers	2,500 to 3,500	125 to 175
Non-skilled workers	1,000 to 2,500	50 to 125

Source: Mission survey results

Examples of fringe benefits (which are not always provided) are "Christmas bonus", "half year bonus", "prima legal" (25 percent of company's profits before taxes), social security contributions, and commissary acruices for companies with more than 20 workers. These benefits range from 20 to 68 percent of base pay. The degree to which observed varies by location and even from company to company.

Aware of the need to up-date and consolidate existing legislation, the Bolivian Government is studying a new Labour Code (November 1977) that will, hopefully, climinate problems of comprehension and inconsistency of application. Consistent and clear information is necessary for both existing industries and new ventures.

.5.6. PROMETOAL ASPECTS

Only 42 percent of the cosponies visited should a satisfactory level of expecity utilization (more than 60 percent of installed capacity), while the average is 40 percent. The most frequent reasons for low capacity utilization are ⁽¹⁾ manificient demand for products, and ⁽²⁾ chortage of working capital. From the technical point of view, production bottle-mecks, equipment break-downs, low productivity and unreliability of labour are the main factors responsible for this situation. Transport problems and inadequate quantity and quality of raw materials are other constraints. No correlation was found between age of companies and capacity utilization (see Tables 2 and 10 of Statistical <u>Apper 7</u>).

Despite the rather simple production processes and technology used by SSI in Bolivia, about one third of those included in the sample were found to need technical assistance to improve their production techniques. Most of them appear to need help to improve product design and quality.

The majority of SSI operate in rented premises or within the owner's home. Despite adaptations, neither location is likely to provide a proper layout, with easy access, smooth flow of materials, and comfort and safety for the workers. For some, the problem could be selved by moving to industrial estates, the construction of which should be further encouraged, or to their own premises with the proper financial assistance. For others that must remain in the center of urban areas, for proximity to markets and other reasons, Government intervention may be the only solution, particularly as concerns the safety and welfare of workers.

Wastage of raw materials is due mostly to reluctance to use proper measuring and carrying devices and to deficiencies in the training of workers. Little attention is paid to wastage of electricity, water, and fuel.

Machinery and equipment are in general old, in conformity with the age of companies. In some cases, it was found that second-hand equipment from Brazil and Argentina had been imported for initiating operations. Lack of maintenance and repair contribute to the negative aspects observed, especially in the case of smaller companies. Difficulties in obtaining long-term credit for replacement and modernization are among the primary reasons for the frequent use of worm-out equipment.

-5-7 FIRAMOIAL ASPECTAS

Seleta RELEADELETY OF TAPA

Instudying the financial circumstances of SSI in Bolivia, it must be kept in mind that statistical data based on tax returns are to a large degree innaccurate. It is a common practice, for small firms in particular, to report only a small portion of total sales revenue, with the result that only a fraction of a potential tax liability is actually prid. This leads to distortion of assot values, as well as to a fabrication of cost and profit figures. Tax returns are usually projected by professional accountants employed on a part-time basis. From the point of view of the entrepreneur, the high cost of this special service is more than justified by the tax savings. It is also apparent that statistics on profitability of SSI would be significantly altered if reporting of income were more strictly monitored by the Government. The official corporate income tax rate is 30 percent except when, as an investment incentive awarded by INI, the rate is reduced to 25 percent.

In view of the practice described above, the mission endeavoured in the course of interviews with SSI to ascertain real values in preference to those reflected in official accounting records. These efforts often, but not always, met with success. This meant being content with oral approximations, as written records reflecting real income and expense were rarely in evidence. Nevertheless, the mission feels more confident in the figures obtained in the course of the interviews than in any official written records of the Government or of the companies.

PROFITABILITY

In spite of inefficiencies, limited market potential, and inaccessibility of bank credit, SSI in Bolivia was found to be generally profitable.

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As explained in Section 2.5.7.1., one reason for this profitability is the low effective rate of variation. Another reason is the existence of a large and cheap labear force not always subject to minimum wage and benefit regulations.

When profit is measured against the investment committed to obtaining this profit, we found that half of the companies interviewed reported grass carnings in excess of 20 percent of total assets. Seventy-three percent reported more than a 5 percent return on total assets. Only 4 out of 79 companies were in a loss position, and that was believed to be a temporary situation. Profits remaining after taxes and after compensation to creditors in the form of interest were in excess of 10 percent of total assets for 45 percent of the sample.

The carning power of the ownership investment was found to be correspondingly high. Thirty-eight percent of the firms interviewed reported a greater than 30 percent return on net worth, and 55 percent indicated a greater than 10 percent return.

Profit margins are normally high. Earnings before interest and taxes were found to be greater than 20 percent of sales in almost half of the cases examined. For the same number of cases, net profit exceeded 10 percent of sales, and this would probably have been higher if all respondents had been candid about giving their real sales and profit figures. An analysis of ratios regarding profitability is at Annox 8.

The profitability described above must be considered also in light of the relatively low inflationary trend in the sconomy, which has varied between 5 and 10 percent per year over the past 3 years.

.3. LIGUIDITY AND TRADAPRONESS

The minimum found a general pattern of strength among SSI in terms of ability to meet current obligations. Data on current assets and current liabilities were obtained only in he Paz, Cochebambo and Santa Curz, and in these areas 65 percent of the companies interviewed reported current assets greater then twice the amount of current liabilities. This reflects the tendency to carry large inventories in response to supply problems, the inability to obtain raw materials on a credit basis, and the disinclination to insur chort-term debt because of its relatively high cost as well as tedious application procedures.

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The assumption that small firms in Bolivia operate for the most part with their own funds and zarely with borrowed money was verified during the survey. In only 24 percent of the cases were more than 50 percent of total assets financed by a company's creditors. In 41 percent of the cases less than 20 percent of total assets were provided by debt, either long or short-term. Three firms reported no debt of any kind. The position becomes even clearer on examination of long-term debt in the capital structure of the companies. Forty-six percent of the firms interviewed reported no long-term debt at all, and 78 percent of the firms had less than 20 percent of their capital resources in long-term debt. Only 11 firms reported a greater than 30:70 debt/equity ratio. Non-availability of long-term money on reasonable terms is a major reason, and of paramount importance is the question of collateral. It is also worth noting that small businessmen show a certain reluctance to expose themselves to bank audits in connection with loans, lest this act compromise them in the eyes of the tax authorities. Annex 9 carries an analysis of ratios pertaining to liquidity and indebtedness.

2.5.7.4. BANK CREDIT

Almost without exception the companies interviewed cited innecessibility of bank credit on reasonable terms as a major financial problem tending to limit their activities and acting as a disincentive to investment. The owners of small businesses generally find it difficult to obtain bank financing, particularly in the form of long-term loans, particularly for permanent working capital, and particularly in the more reaches around The delays experienced in processing loan applications, a procedure little understood by small-scale businessmen, is a further determent to applying for back loans.

Bolavia's commercial banks are reluctant to lend to SSI because of what they perceive to be a high-risk factor. Conflicting opinions were obtained in respect to whether there is in fact a higher risk in lending to smallscale industry than there is in lending to larger firms. Inacmuch as SSI in Bolivia is found to be just as profitable if not more profitable than medium and large enterprises, the fear of high risk may be more imagined then real. Hore than likely the behaviour patterns of small businessmen undermine confidence on the part of the bankers. Commercial banks are reluctant . to lend to SSI also on the grounds that loan applications from this sector are costly to process and that the loans are expensive to supervise, particularly when one considers the relatively small amounts involved. Bankers claim that an inordinate amount of staff time is needed to extract the necessary qualifying data from small-scale entrepreneurs. It is a fact that the spreads on existing lines of credit are not sufficiently attractive to cover the cost of lending to SSI, especially when one considers alternate investment possibilities available to the commercial banks.

The terms under which bank credit is available are almost universally considered by small-scale entrepreneurs to be unreasonable, first in terms of interest rates charged, second in respect to repayment periods, and third in regard to collateral requirements. In Bolivia, interest rates are in fact relatively high because the financial cost of resources to the banks is high. Interest rates paid on savings deposits in person range from 10 percent to 11.75 percent. US dollar deposits yield up to 9 percent per annum. The average cost of resources to Bolivian banks is roughly 8 percent, but this varies depending on the proportion of savings accounts to current accounts, the amount of rediscounting in which a bank engages, and the amount of foreign borrowing incurred. Interest rates charged by commercial banks to SSI vary from 12 percent for loans discounted at the Central Banks to more than 30 percent on short-term commercial loans with - 26 --

interest prepaid and various commissions attached (see eaction on private commercial banks). Local currency beams from the Banco Industrial (BISA), which are rarely available to SST, are made at 15 percent, and foreign currency leans from the same source are in the order of 12 percent. Companies that are forced to go to private money lenders for short-term credit because they cannot meet the conditions of commercial banks and pay effective interest ranging as high as 5 to 10 percent per month. In order to avoid delays, red-tape, and the possible embarransment involved in asset appraisel (vis. tax liability), small-scale industrialists often accept offers of bi-latoral financing from foreign banks in connection with the purchase of machinery and equipment (see section on private commercial banks).

Repayment periods on loans from commercial banks are usually less than 5 years, and grace periods are rarely available. There is, however, a movement into longer maturities, because recent bank legislation is forcing the commercial banks to heep a larger percentage of their pertfolies in medium-term loans (see section on private commercial banks). The principal development bank, BISA, makes working capital loans for up to 3 years and loans for fixed assets up to 10 years.

The general practice among Bolivian banks is to take personal guarantees on all leans under 3 years, and mortgages on real property, machinery and equipment and inventories as collateral for leans exceeding 3 years. Longer term leans usually carry both types of guarantees. The guarantee policy is conservative, the banks normally requiring up to 2 times lean coverage with real estate and up to 3 times coverage with mechinery and equipment. A number of firms interviewed asserted that banks have asked for lean coverage of 5 or 6 times, but this probably steas from disagreement over the appraisal of the fair market value of the asset in question, the banks appraisers attaching lower values than the owners themselves would estimate. In any case, guarantees are usually considered to be excessive and a real hindrance to the usage of bank credit. In the opinion of the Banco del Estado, which had particularly constructive advice to give on ways to assist SSI, the standard form of collateral should not be applied to this sector. More reliance should be placed on the marits of a given project as the best form of guarantee for any bank, and this raises the question of technical assistance to entrepreneurs in preparing bankable projects. Another as yet little used form of guarantee is the assignment to the financing agency of the Eales proceeds resulting from any given project. However, this once again calls for costly supervision, which the banks are reluctant to accept. In any case, it is necessary to agree with the Banco del Estado that special and not standard arrangements need to be made for security on Leans to small entrepreneurs due to their general inability to meet standard collateral requirements. The newly proposed Productive Credit Guarantee Fregram of USAID and the Central Bank merits special attention in this regard (see section on Central Bank).

3. INSTITUTIONAL FRANTWORK

3.1. GOVERNIEMT POLICIES

The Five-Year Development Plan 1976-1980 calls for a more dynamic and balanced participation of the industrial sector in GDP, pointing to the rather low (12.5 percent) contribution achieved in 1976 and to the composition of industrial output, the latter consisting mainly of consumer goods that are usually manufactured in small and inefficient units. The plan envisages a growth rate for industrial production of 9.8 percent per year compared with an average of 7.2 percent achieved in the previous five-year period. According to the plan, the country is to take advantage of export possibilities within the Andean Group and other noighbouring regional markets, and an expansion of the domestic market corresponding to an increase in population, personal income, and availability of raw materials (e.g. minerals, natural gas and oil, farm commedities).

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Total new investment for the five-year period is estimated at US\$ 2.2 billion, of which about US\$ 1.7 billion (76 percent) are for public sector projects. Strong caphesas is put on large projects, superially those destined for the Andeau Market (metal, mechanical, petrochemical and automotive products), and the processing and refining of minerals (tin, copper, zinc, silver, bisauth).

No mention is made in the five-year plan of the role SST are expected to play. In fact, there is not a clearly defined policy towards this sector, although it is obvious that many components, intermediates and services necessary for the larger projects will have to be supplied from small and medium-size enterprises. These must be planned and organized well in advance.

This lack of a Covernment policy toward SST is reflected at all institutional levels, where preference for large projects or enterprises is apparent. The situation is not likely to change as long as performance of Covernment agencies dealing with industrial development is measured in terms of investment value, value of industrial output, or number of jobs created.

Another tendency is to confuse SSI with the artisan sector at the other end of the scale. Although artisans and small industrialists have some common features (owner-management and problems of access to credit, incentives and Government protection), they are essentially different in Bolivia. Artisans belong to the informal sector and function more or less at the margin of the Government's knowledge and control and are therefore not subject to taxation or regulations regarding minimum wages and fringe benefits. SSI are expected to conform to Government regulations, although the degree to which this is enforced varies considerably.

Small businesses in other sectors of the economy such as mining, agriculture and artisanry, are nowadays receiving more attention than is SSI from the Government and from institutions like IBND and DSAID. These have excited considerable influence in the establishment of policies and procedures favouring the development of these sectors as a pre-condition for financial assistance. Some aid programmes in both michland urban areas focus on small business as a means to fight poverty and achieve a more rational and just income distribution. However, SSI have benefited only marginally from these programmes.

The situation of SSI in Bolivia contrasts with other countries, including those with a high level of industrialisation, where there is recognition that problems affecting SSI differ from these of large and mediua-size enterprises and from those of the artisan sector. This recognition has led to special legislation and treatment for SSI, in the understanding that these units are the sectlings of larger enterprises. A weak and stagnant SSI, such as we find in Bolivia, will in the opinion of the mission never lead to sound industrial development. Therefore, it is advisable that the Bolivian Government initiate a comprehensive plan in favour of SSI, setting-up adequate policies and goals, establishing priorities for industrial activities, and identifying critical areas in which governmental action is necessary. At the same time, strengthening and reorganizing existing Covernment institutions should be carried out.

.2. INVESTMENT INCENTIVES

Incentives for all new investment are granted under the "Investment Law" (Decree-Law No. 10045 of 10 December 1971), which is administered by the National Institute for Investments (INI). Chapters V and VI of the Investment Law deal with industry. The "Rules for National Industrial Integration" (Supreme Decree No. 13050 of 7 November 1975) apply to assembly industries and give INI the right to decide upon Government incentives on the basis of projected value added. In neither case is SSI treated differently from any other industrial sector.

The incentives provided under the Investment Law are summarized in <u>Annex 10</u>. The most important incentives are (1) exemption from import duties on machinery and equipment, raw materials and supplies not produced in Bolivia, (2) refund of customs duties on raw materials and supplies re-exported as

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finished products, and (3) in contain cases income tex exception propertional to reinvestment of profits. Now industries are divided into three categories according to the economic importance of each activity, the first category receiving maximum incentives. Activities included in the first category are these related to the programmes of the Andean Group (metal, mechanical, petrochemical, chemical, pharmachemical, autorotive, electric end electronic products). The second category includes production of intermediate goods and inputs for first category products, agro-industries, consumer goods and explosives. Other products not covered in the first two groups belong to the third category.

In addition to failing to provide special treatment for SSI, the Investment Law and its application have disadvantages for the small-scale entrepreneur. An application for benefits requires a complete feasibility study of the proposed investment, even for a modest investment or replacement or improvement of existing installations. Since in a great number of cases the inceptives are limited to customs duty exemption on imported machinery and equipment (about 10 percent of c.i.f. value), many SSI are automatically excluded because the cost of the feasibility study exceeds the benefits. Additionally, applicants report 6 to 24 menths proceeding time with corresponding price increases which SSI cannot afford. To many small-scale basinescene the Investment Law is difficult to understand, thereby necessitating explanations and assistance in preparing applications for incentives. In some cases complete ignorance of the Investment Law was found to exist, indicating that its promotion is necessary.

Export incentives are confined to the "draw-back? system for imported raw materials and inputs. For financial and practical reasons, SSI are not able to import directly and therefore benefit from the cystem. Information regarding fiscal incentives for exporters frequently reaches only the intermediarics engaged in export sales and not the manufacturers. In contrast, other Latin American countries have export bonuses which allow for the refunding of custom duties on locally purchased raw materials and supplies that were originally imported by commercial firms. In the latter respect, the example of Colembia should be studied for possible application in Bolivia.¹/

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^{1/} Export incentives of this nature were recently enacted in Bolivia but are not yet in effect (Decrec-Law No. 14803 of 8 August 1977).

Yogother with simplification of existing application procedures, the Investment Law argently requires amendment if the Government seriously intends using it as a tool to premote private investment in general. The present requirement for a complete feasibility study in order to establish eligibility for incentives, while obviously necessary for new ventures, should be relaxed in favour of a brief justification for expansion or modernization of existing smallscale businesses. The incentive for the reinvestment of econings, nearly reduction of taxable income by the amount of the reinvestment, is at present limited to further investment in the same company which generated the carnings. It is recommended that this incentive apply to the creating of new capacity in any form, e.g. in new ventures or in other existing firms. Decentralization of industry to less developed regions of the country could be assisted through utilizing this incentive.

All such modification of existing incentives and the introduction of new ones could justify a new special legislation for SSI or the incorporation of special provisions into existing legislation.

3.3. INSTITUTIONS DEALING WITH SSI

3.3.1. THE SECRETARIAT OF THE NATIONAL COUNCIL FOR ECONOMY AND PLANNING (CONEPLAN)

COMEPLAN performs the general tasks of planning and coordinating for all sectors of the economy. It is also in charge of preparing social and coonomic surveys for the various executive bodies of the Government. CONEPLAN has played an important role in the proparation of the Investment Law and in the creation of the existing institutional infrastructure dealing with industry, including SSI.

1/ Financial and credit institutions are not included in this section but rather in Section 3.4.

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The Secretarial of GOMPLAN has an Industrial Sector Department that prepares, evaluates and up-dates on an annual basis the fiveyear plans for industry, for which purpose it collects information from public and private Scarces. As mentioned previously, neither the Five-Year Plan nor the 1977 Annual Plan contain policies, strategies and goals specifically designed for SST. It is evident that CONEPLAN is concentrating on large-scale projects as a means to accelerate industrial development.

HEPA ETERNITAL & WILLOPLENT CORPORATIONS

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The Departmental Development Corporations (Corporaciones de Desarrollo) are an extension of CONEPLAN. They are responsible for planning and executing publicly financed projects in each Department and for monitoring the various sectors of the economy, including industry.

Some of these corporations are well organized and carry out their work with great enthusiasm and an acceptable degree of efficiency. For the industrial sector, they prepare feasibility studies, organize ventures with private participation, plan and construct industrial parks and cope with infrastructure problems, especially those related to transportation, power, water and sewcrage.

The development corporations of Santa Cruz and those of Tarija, Potobl and Sucre are actively promoting the creation of regional development finance corporations that would provide credit on concessionary terms. This is in response to problems faced by private entropreneurs in obtaining financial assistance from the established commercial banking system.

There is, however, a lack of coordination of the corporations' activities, resulting in undue competition for relatively small markets. In the field of industry, projects for such products as vegetable oils, leather and wood products, and wines and spirits are contemplated by almost all of the corporations visited by the mission.

3.3.3. THE NATIONAL INSTITUTE FOR INVESTMENTS (INI)

INI was created by Decree-Law No. 10045, of December 1971, to be responsible for the administration of the Investment Law. It operates as an autonomous unit under the supervision of the Ministry of Industry, Commerce and Tourism (MICT). Its Board of Directors is composed of the Minister of Industry as chairman, the Ministers of Finance and of Planning and Coordination, and two representatives of the private sector.

INI's functions and competence also include guidance to entrepreneurs regarding investment incentives and investment opportunities. The bulk of INI's work is the processing of applications to obtain the benefitz of the Investment Law. Although INI has a small Department of Promotion Assistance and Surveys to collaborate with private initiative, the impact of these activities has yet to reach small enterprises.

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Between January 1972 and August 1977 DE had approved or registered a total of 321 projects, representing an investment of USS 405.6 million (see <u>Annex 11</u>). Of these, 67 projects (or 24 percent) constituted an investment of less than USE 100,000; 38 projects (or 12 percent) were below USS 50,000, and only 12 projects (or 4 percent) were less than USE 20,000. The situation improved in 1977, when in 8 months 22 projects of less than USE 100,000 each, or about 27 percent of all applications during that period, were registered.

From the figures mentioned above and considering that the Tovestment Law is intended for all types of economic activity, one may conclude that the number of SSI that have received the benefit of Government incentives is very low. The main reason for this is the fact that the bulk of Bolivian SSI with an average age of about 18 years, could not benefit from incentives granted under the Investment Law, which was introduced only for new investments in the year 1972. Therefore, the sample shows that only 3, or about 4 percent of the enterprises, or 65 percent, started operations before 1972 and thus are excluded from the incentives altogether.

These figures also reflect those entrepreneurs who were entitled to incentive but never presented applications to the Government because of the cumbersome procedures. The mission discovered entrepreneurs who are not knowledgeable of existing incentive schemes, which indicates that much more should be done to publicize these opportunities.

Aware of its present limitations and inefficiencies, INT has expressed interest in obtaining assistance from international organizations to train its professional staft, to simplify procedures, to identify investment opportunities, to prepare feasibility studies and to organize the promotion of new projects among local and foreign investors. However, even with this help it will be difficult for INI to concentrate on SSI, which require more atten tion that do large-scale enterprises. As long as INI's performance is measured by comparing staff-time input with the investment value of approved projects, SSI will continue to have low priority for DII.

THE BOLTVIAN THEFTOMS FOR STALL-COALE INDESSINY AND ANTISAMNY (INBOPTA)

INTROPIA was created by Supreme Decree No. 11734, of 28 August 1974, and started operating in June 1975. As an autonomous public institution supervised by the NICT, it is authorized to engage in a broad spectrum of activities. INPOPIA is mainly in charge of premoting new projects for SSI and artisand and in providing financial and technical absistance to improve the productivity of existing enterprises. INPOPIA is also involved in the formulation of policies and incentives and the coordination of activities of all institutions decling with the two sectors.

Nith a current budget of only US \$140,000 and a staff of 35 persons, of which 14 are professionals (see <u>Annex 12</u>), INEOPIA can achieve very little in view of the fact that there are 1,600 SSI and 15,000 artisan workshops. The fact that INBOPIA was only recently created and therefore has a relatively inexperienced staff contributes to its lack of success thus far. Up to now, INEOPIA has concentrated on the following activities:

- a) Preparation of a sector analysis of SSI and artisanry (in process).
- b) Establishment of a National Registry for SSI and artisens.
- o) Promotion of handicrafts for export markets.
- d) Promotion of artisans cooperatives for the production and commercialization of haudicrafts. \mathcal{V}

From items (c) and (d) above, it is obvious that INBOFIA is more concerned with artisans than with SSI and that handicrafts have the highest priority. For this purpose, the institution is receiving financial assistance from USAID and technical assistance from IDB. On the basis of its statutes, INBOFIA properly reinforced and organized could be the best source of technical assistance and extension services for modernizing the SSI sector. Cortain urgent needs of SSI, as identified by the mission, clearly come under the responsibility of INBOFIA, and these are:

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^{1/} An example is "Manos de Bolivia", a conglomerate of 9 cooperatives located around Lako Titicaca manufacturing handwoven sweaters and other gamments from alpaca wool.

- a) Identification of investment opportunities.
- b) Propagation of industrial profiles and feasibility studios.
- c) Proparation of applications for credit and investment incentives.
- d) 'Extension services to existing enterprises to improve productivity and efficiency, including basic systems of financial, operational and production management.
- e) Promotion of services and incentives available to SSI through INBOPIA, INI and other public, private, national and international organizations.
- f) Planning and construction of industrial estates and parks.

Giving due credit to the importance of export promotion for handicrafts, the mission believes that this activity requires a specialized organization, with a network of show-rocass and distribution channels in the most popular tourist centres of the country and in solected cities abroad. It also requires assistance to develop new designe, to improve manufacturing techniques, to supply raw materials and to develop new markets. This programme is too large for INBOPIA's existing organization and structure. As an example, INBOPTA has so far unsuccessfully engaged in the marketing of wool products in competition with another institution, the Committee for Development of Wool (COMEDFLA). In order to use its limited resources in the best way, INBOPIA should assist in organizing marketing entities for handicrafts, including those made out of wool, rather than in being directly involved in marketing activities. Such policy would free INBOPIA to concentrate on providing much needed technical assistance to SSI and artisans.

In order to enhance INBOPIA's role as a source of technical assistance for SSI, the Government should give greater financial support to the organization. In addition, the mission recommends that assistance, both financial and technical, be provided to INBOPIA by international organizations.

1.3.5. THE PATTONAL SERVICE FOR LABOUR TRATITING (FOMO)

Since 1972, FONO has been charged with preparing and training workers for different sectors of the seconomy. According to FOMO, only 10 percent of available labour in the country is skilled. This low percentage reflects in part the largo number of unskilled workers in the agricultural sector.

In the industrial sector, the Five-Year Development Plan 1976-1980 calls for the formation of some 31,500 qualified workers, or about 11 percent of the requirements of all economic sectors. To meet these targets, FOMO trained nome 2,500 persons during its first three years of operations and an additional 2,600 persons in 1976. Special training for industry covers wolding and operating of machine tools for metal and wood processing. Other fields of training are electric installations, electronics and sutemetive repair.

FOMO has thus far received technical and financial help from Spain, Brazil, USA, West Germany, Switzerland, France and from international agencies including ILO and UNDP. Agreements for training have been concluded with private industries or groups of industries (c.g. textiles and furniture), local development corporations and other official agencies.

Despite: FOEO's success with training programmes, it is obvious that rescurces available are insufficient for such an ambitious programme. There is great scope for additional help, using demostic, multilateral and international aid resources. In the meantime, industry is obliged to rely on its own capacity for preparing and training workers, and this is particularly burdensome for small companies.

3.3.6. THE DIVISION FOR EXPORT PROMOTION (FOREX)

FGEFX is a section of the Central Bank in charge of expert premotion and technical absistance to exporting firms. Among other services, FOMEX provides information on international fairs and trade conventions. It publishes a Directory of Exporters and a Letter to the Exporter containing references to potential customers abroad. Exports promoted include handicrafts and agricultural and manufactured products such as canned foods and preserves, leather, cocoa, chestnuts, coffee, parquet and vencer. Traditional exports like mineral concentrates and sugar are not within the ophere of activity of FOMEX.

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FOMEX has no direct contact with either SST or artimans, which in any case do not normally expect directly but through cooperatives or expect firms. On the other hand, information on importing fixes in other countries is available to any enterprise, regardless of size.

1.3.7 THE TECHNICAL COUNCEL FOR THE PROTOFION OF EXPORTS

This office was recently created by Decree-Law No. 14803, of 5 August 1977, to administer the export incentives established under the same law. Tax benuses granted in propertion to the local value added of the exported products are in accordance with the following table:

BOLTVIA: Export Incentives fo	or Manufactured Products
local Value Added as percentage of F.O.B. Value	Tax bonus as percentage of F.O.B. Value
From 0.0 to 10	5
10.1 30	. 7
30.1 40	9
40. 1 50	12
50.1 60	16
60.1 70	21
70.1 100	25

TABLE Nº 11

Source: Decree-Law No. 14803

Traditional exports, such as minerals and agricultural products, as well as rau materials whose export is prohibited are excluded from these export incentives. This scheme will be offective after approval of internal regulations prepared by the Technical Council. Again, the bencficiaries may be exporting firms and not necessarily small manufacturers.

5.3.8. THE NATIONAL CHAPBER OF THOUSTRIES (CHT)

CNT, with a membership of some 920 industrial enterprises (see <u>Annex 13</u>) covers about 50 percent of all private industrial enterprises in Bolivia, which are optimated to number around 2,000. Artisans are not members of CNT and are therefore excluded from these figures. Twenty-eight percent of CNT members are located in La Pas, 25 percent in Santa Cruz, 23 percent in Coshabamba, and the remainder in other Departments. Members are divided into three categories according to the exount of their paid-in capital, and membership fees are proportional to this capital. It is therefore unstandable that composite tend to understate their capital to limit their CDI fees and that statistical information submitted to CDI is largely warehiable. SSI belong to the Third Category.

Among the services provided by the CMT to its members are information on existing laws and Government procedures, on manufacturers of machinery and equipment, on financial institutions and on market oppertunities. However, CNI's work is restricted by the small number of personal in charge of these tasks and by the difficulties of communicating by mail and telephone with industrialists located outside of La Paz and other major industrial conters. Although efforts are being made by CNI to coordinate its activities with the Departmental Chambers of Industry, it remains difficult to maintain contact with members outside of La Paz.

.3.9. INDUSTRIAL ESPATES AND PARKS

The responsibility for the planning and construction of industrial estates and purks lies with the Departmental Development Corporations. Practically all of them are handling such projects, which are at various stages of progress. The most advanced park is located in Santa Graz; it is slready in partial operation. Cochabamba has completed plans for an industrial estate where enterprises resulting from the implementation of the automotive industry programme of the Andean Group will be located. Orure has just invited international competitive bidding for a feasibility study and final design for its industrial park. Tarija and Chaquisses are considering similar parks and may need expert assistance to propare their projects.

None of the industrial parks under implementation has been conceived for SSI exclusively. Again, preference is given to large-scale projects, and in most cases SSI and artisans will benefit only occasionally in case of insufficient demand from medium and large industry. Inasmuch as large enterprises will have to depend on services and sub-supplies from SSI, the location of suitable small-scale enterprises within the industrial parks should be considered desirable. The lay-out of these parks should thereforeallow for space destined to a certain number of selected SSI.

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A case decerving immediate attention for the planning of an industrial obtate is La Fas where, because of land configuration, Epace available within the city is reaching its limits. Here, industry in general faces a serious problem for further expansion. Existing prices for real cotate in La Fas are among the highest in Latin America, and the most seriously affected by this situation are the small entrepreneurs. As of this writing, the Hunicipality of La Faz and the Development Corporation of La Faz (CORDEPAZ) have not yet reached agreement as to whether an industrial estate should be located in El Alto or further out on the road to Lake Titicaes. CORDEPAZ, for environmental reasons, opposes construction of more industrial facilities in El Alto, which could, for reasons of topography, spread air pollution into the lower-lying center of La Faz.

3.4. FINANOTAL INSTITUTIONS

The following is a brief review of all financial institutions reported to be dealing with small-scale industry in Bolivia. It bears some reference to artigancy because of overlap in definitions.

3.4.1. BOLIVIAN GOVERNMENT ENTITIES

3.4.1.1. BANCO CENTRAL DE BOLIVIA

The Banco Central de Bolivia (Central Bank), through the Ministry of Finance, advises the Bolivian Government on monetary and financial policies, manages the monotary reserves, regulates the functioning of financial entities, and acts as financial agent of the Government in the handling of internal and foreign debt. It also serves as a channel for various financial resources, among which are funds for the financing of industry. Those funds and programmes which relate to small-scale industry are:

- a) Special Fund for Economic Development
- b) Industrial Refinancing Fund (FRI)
- (o) Artisanry Refinancing Line (ARL)
 - d) Fund for Agribusiness and Artisanry
- .c) Proposed Productive Credit Guarantee Programme

A brief description of these funds and programmes and comments on their usefulness are as follows:

(e) Special Fund for Economic Development

This fund use established in the Central Bank in February 1967, utilizing repayments of three leans from USAID to the Governmentouned Corporación Minera Boliviana (COMILOL). The three USAID leans, totalling USS 10.9 million, were made to COMIBOL for a period of 40 years, including 10 years grace, at a rate of interest of 3/4 percent p.a. COMIBOL, on the other hand, has been repaying the leans to the Central Bank over a period of 20 years at 2 percent interest p.a., the difference in terms creating a fund in local currency that has been relent through intermediary banks to various economic sectors. Subleans have generally been made for periods of leas than 5 years at 12 percent p.e., of which 7 percent is retained by the Central Bank and 5 percent by the intermediary banks.

As of July 1977, subleans totalling US\$ 26.4 million equivalent had been financed from this fund, and 60 percent of these were adminiatered by Government-owned banks (Del Estado, Agricola, and Minero). The Banco del Estado alone accounted for 45 percent of the subleans. The major portion of the subleans has been for agriculture and livesteek. The distribution of subleans by economic sector is as follows:

TABLE Nº 12

Bolivia: Central Bank - Distribution of Special Fund Credits by
Economic Sector as of December 31, 1976

Sector	US\$ '000 equivalent Cumulative	Percent
Construction	6,800	28.6
Exports	2,465	10.4
Industry	4,545	19.1
Agriculture and Livestock	9,835	41.3
Mining	105	0.4
Artisanry	40	0.2
	23, 790	100.0

Source: Banco Contral de Bolivia

Records were not available to indicate the amount from this fund that has gone to small-scale industry, but it is said to be negligible. None of the finns interviewed during the current survey had benefited from loans from this special fund.

As of Docember 31, 1976, the balance of loans outstanding under this progressme was US\$ 4.8 million equivalent.

b) Industrial Refinencing Fund

The Industrial Refinancing Fund (FRI) was created in September 1972 by means of a lean to the Central Bank from USAID in the amount of US\$ 7 million and US\$ 1 million equivalent in counterpart funds of the Central Bank. The USAID lean was for a period of 40 years, including 10 years' grace, the interest rate being 2 percent p.a. during the grace period and 3 percent p.a. thereafter. Proceeds of the fund have been used for making subleans in local currency through the Bolivian banking system to the private sector for the establishment, expansion and medernization of industrial enterprises. The FRI fund was fully disbursed within a three-year period, i.e. by the end of 1975, and since then the fund has operated on recuperation of previous subleans.

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The system provides for subleans to be channelled through intermediary financial institutions. The Government-counsed Banco del Estado has handled 23 percent of the leans by number and 29 percent by value. The balance has been channelled through all but two of Bolivia's private commercial and specialized banks, the largest users being the Banco Industrial, Banco Mercantil, and Banco Hipotecario Nacional. <u>Annex 14</u> shows the distribution of FRI leans by financial intermediary.

Although no particular emphasis was given to agro-industry or small enterprises in the design of the FRI project, 27 percent of the original funds were allocated to agro-industry, and 68 percent of the subloans were for US\$ 50,000 equivalent or less. The maximum allowable subloan is US\$ 400,000 equivalent. Approximately 70 percent of the subloans have been for expansion and improvement of existing facilities, while 30 percent have been for outablishing new enterprises. As ef the end of October 1977, a total of 225 enterprises had been financed, with the following geographical distribution:

TABLE Nº 13

BOLIVIA: Central Bank - Distribution	cf	FRI	Subloans	by Dopertmon	nt
as of December 3	۱.				_

			• • •	
Department	Number of Subloans	Porcent	Amount of Subleans (USS 000 equivalent)	Percont
ha Paz	65	28.9	4,985	48.3
Gochabamba	53	23.6	2,573	24.9
Santa Cruz	54	24.0	2,076	20.1
Chuquiseca	23	10.2	333	3.3
Tari ja	4	1.8	17	0.2
Potosi	7	3.1	162	1.6
Oruro	. 7	3.1	· 65	0.6
Beni	12	5.3	105	1.0
Pando	0	0.0	• 0	0.0
	, <u>225</u>	100.0	10, 317	100.0

Source: Banco Central de Bolivia

The fund has been utilized as indicated in the following table:

TABLE IL 14

BOLIVIA: Contral Bank - Uncu of FRI Funds as of December 31, 1976

Purpose	Amount US\$ '000 equivalent	Percent
Working capital and local expenses	2,949	28.6
Invoutment capital an imported goods	rd 7,366	71.4
Feasibility studies	2	0
	10, 317	100.0

Source: Banco Central de Bolavia

In conject to purpose of loans, 43 percent has been for working capital and 57 percent for investment in fixed assets.

The intermediary banks charge 12 percent p.a. interest on sub-leans utilizing FRI funds, and this is considerably lower than standard connercial rates for leans to the preductive sector (16 percent p.a.). Out of the 12 percent, 5 percent are retained by the connercial banks and 7 percent by the Contral Bank.

Eighty-two percent of the sub-Jeans have been with acturities of 1 to 5 years, and 18 percent with maturities of 5 to 10 years. The average term for investment capital has been 4.9 years, and the average term for working capital 1.8 years. Because of short payback periods, it was possible to finance sub-Joans totalling US\$ 11.6 million equivalent between initiation of the programme and June 1977. The balance outstanding of FRI sub-Joans as of the same date was US\$ 6.3 million equivalent.

Approximately 2,200 new jobs have been created thus far an a result of the FRI programme. The average amount of investment per job has been US\$ 5,760 equivalent.

During 1976 the number of sub-loans approved under the Fid programme declined by 45 percent and the trend continued into 1977. The reasons are the slow recuperation of funds now that the original source has been exhausted, lack of knowledge on the part of many small-scale entrepreneurs as to the existence of this fund, and last but not least the lack of interest on the part of borrowers due to legal red tape and collatoral requirements.

A major criticism of the FRI lending programme is that it has reached and continues to reach mainly medium and large industries in urban areas. It is estimated that less than 30 percent of the FRI sub-leans were to industries that qualify as small-scale under our definition, even though most of the sub-leans were for amounts of less than US\$ 50,000 equivalent. The average size of leans has been approximately

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US\$ 50,000 equivalent. The number of compunies within the mission's survey that are using or have utilized FRI sub-loons is 11, constituting 13 percent of the sample.

Another criticism of the programme is that technical achietance in terms of project identification and preparation has been neglected. The Central Bank, with a staff of 14 professionals, is theoretically capable of expert financial analysis. However, it is up to the commercial banks to initiate the sub-lean requests for subsequent Central Bank approval, and it is the commercial banks that are doing little or nothing to assist the investor in preparing bankable projects. Lack of attention to this matter on the part of the commercial banks may also be traced to the 5 percent p.a. interest they redeive, which many bankers believe to be too low to warrant the extra effort in terms of time and manpower required to provide such technical assistance.

The time involved in processing a sub-lean under the FRI programme has also been the cause of concern to clients. The procedure often takes up to six months to complete. Delay within the intermediary commercial banks is usually caused by problems in obtaining sufficient security on the lean and excessive paper work.

c) Articeurs Petinencing Line (ARL)

In 1974 the Central Bank cutablished with its own resources a US\$ 1.5 million equivalent refinancing line of crédit for artisancy subprojects. This included financing for typical handi coafts and small-scale productive enterprises. Within one year, sub-loans were made through the commercial budting system to 865 artisans, with the maximum cub-loan fixed at US\$ 3,000 equivalent and an average sub-loan of USS 1,750 equivalent. As of June 1977, sub-loans totalling US\$ 2.1 million equivalent had been made from this fund. Terms are up to 18 months for working capital and up to 5 years for investment capital. The interest rate is 12 percent p.a. of which 7 percent is paid to the Central Bank and 5 percent retained by the intermediary bank. The private banking system has made 63 percent of the sub-loans, and the Banco del Estado 37 percent. According to the Central Bank, the repayment record has been excellent. This fund has created about 1,300 jobs and contributed to the recent expansion 10 export of Bolivian handierafts. The distribution of sub-loans by Department is as follows:

Dopartment	Amount US\$ 000 cquivalent	Percont
La Pas	192.4	. 9•4
Santa Cruz	216.5	10.6
Cochabamba	621.4	30.3
Sucre	306.1	14.9
Tarija	318.7	15•5
Potosi	130.8	6.4
Oruro .	164.3	8.0
Beni	· 94•0	4.6
Pando	6.4	0.3
TOTAL	2,050.6	100.0

TABLE Nº 15

Bolivier Distribution of APL Credits by Department **BS of December 31, 1976**

Source: Banco Central de Bolivia

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A principal criticism of the Central Bank's articancy refinancing line is that the programme extends mainly to urban areas and that rural areas continue to be neglected, although this was not the original intention of the programme.

d) Proposed Fund for Agribusiness and Artisanry

The Central Bank and USAID are now in the process of creating a refinancing fund similar to FMI for agribusiness and artisanry. It is expected that this new fund will be operational by the end of 1978. Agribusinesses are defined as those that provide inputs for small farmer production purposes or for the marketing of small farmer products. Artisan activity in urban areas is limited to activities which involve the processing of agricultural products, e.g. wool, leather and wood. The financing of other types of artisanry, such as metalworking, furniture manufacturing and cottage industries, would be limited under this programme to projects located in rural areas only. The seven cities visited by the mission, which are the largest concentrations of SSI in the country, are thus excluded.

The fund will consist of a loan from USAID to the Bolivian Government in the amount of USS 6.2 million and USS 3.2 million equivalent in funds of the Contral Bank. The UEAID loan is proposed for a period of 40 years, including a grace period of 10 years, with interest at 2 percent per annum during the first ten years, and 3 percent thereafter. Sub-loans will be channelled through the Bolivian banking system at an interest rate of 13 percent p.a. for periods of up to 10 years. Sub-loans will be limited to 80 percent of the principal of eligible loans. The upper limit on cub-loans will be US\$ 400,000 equivalent for agribusiness and US\$ 15,000 equivalent for artisanry. Out of the 13 percent p.a. interest, the Central Bank will retain 3 percent as opposed to the 7 percent it has retained on sub-loans from FRI. The intermediary banks will receive 5.5 percent for sub-loans to urban agribusines, 6.5 percent for sub-loans to rural agribusiness and urban artiganry, and 7.5 percent for subloans to rural articancy. This spread to the intermediary banks is higher than on the FRI sub-loans and reflects the provious lack of interest on the part of the intermediany banks when the spread was limited to 5 percent. It also reflects the determination on the part of UEAID to utilize the commercial banking system as the best channel for sub-loans to small entrepreneurs.

The balance of the interest (from 2.5 parcent to 4.5 percent) will be placed in a special technical assistance fund, also to be managed by the Central Bank. The latter is intended to provide a wide range of technical and promotional pervices to participating sub-lenders and sub-borrowers. Its major activities will be:

- (i) to finance an inventory of industrial projects for the benefit of the banking community,
- (ii) to finance promotional and training activities undertaken by participating banks, and
- (iii) to finance sub-project development from the idea stage through feasibility study.

The technical assistance programme will be funded initially by a US\$ 200,000 grant from USAID and US\$ 200,000 equivalent from the Central Eank, the latter originating from the interest spread to the Central Eank on earlier USAID loans. USAID grant financing will also be used to provide a long-term adviser to the Central Bank on the administration of lending and technical assistance programmes.

This new project is expected to result in US\$ 13.9 million equivalent additional direct productive investment in agribusiness and artisanry in Bolivia over the next 5 years, not including resources invested by sub-borrowers in their own projects. The project is expected to finance over 630 sub-loans over the five-year period and create about 5,000 jobs. Industries that qualify under this programme are likely to overlap those that qualify under the mission's definition of SSI, particularly agro-industries and small businesses in rural areas. On the other hand, the programme is limiting in terms of eligibility, and the USAID officials that were interviewed streamed the need for complementarity of programmes to assure aid to all types of SSI. USAID would like to see a co-ordinated approach by all lending institutions, not only for lending but also for providing technical assistance in project identification and preparation.

e) Proposed Productive Credit Guarantee Programme

This new credit guarantee programme is sponsored jointly by USAID and the Central Bank and has yet to be approved by the participating institutions. It will become operative sometime in 1978. Its objective is to provide institutional credit to persons or groups that presently lack access to such credit because they have insufficient collateral to meet the normal requirements of the lending institutions. As such, it is destined to fill a longrecognized need that was observed repeatedly during the minsion's programme of interviews with small-scale businessmen.

According to the plan, a fund is to be established within the Central Bank to guarantee 75 percent of the amount of each qualifying loan made by Bolivian financial institutions. The fund will be Capitalized through a one-time guarantee commission of 4 percent on qualifying short-term loans and 5 percent on qualifying medium and long-term loans. It will be supported with up to US\$ 2.5 million from USAID and US\$ 1.25 million equivalent from the Central Bank. The programme will be implemented on a pilot project basis for four years subject to periodic evaluation. The funds for loans that would be guaranteed under this programme would come from refinancing lines administered by the Central Bank as well as from resources of the participating lending institutions. Technical assistance and lean supervision would be provided to berrevers through another fund administered by the Central Fank. It is proposed that eligible leans should include these to;(1) agricultural production and related infrastructure and services, (2) small-scale privately-owned agroindustries, (3) business enterprises located in rural areas or market towns, (4) artisenry projects located in rural or urban areas, and (5) self-ficancing, self-help community development projects.

This new guarantee programme may have significant impact, as lack of sufficient collateral has been repeatedly observed to be a stumbling block to utilization of bank credits by SSI. Under this scheme, however, it is probable that SSI in urban areas, which are the primary concern of this mission, will be excluded from the guarantee programme.

1.2. CORPORACION BOLAVIANA DE FOMMETO (CBF)

CBF has in recent years become more of a holding company for Government investments than a development banking institution, although the latter was its original purpose. With investments in approximately 25 different companies, its assets exceed US \$150 million equivalent. In most instances, it is the sole owner of these companies and is directly involved in their management. Major investments are in sugar refining, milk processing, vehicle body construction, ceramics, cement, and metal smolting. CHP has borrowed heavily from the Central Dank to finance these projects and has been unable to meet the scheduled repayments. For this reason, CHP's investment plans have been curtailed, and the Covernment is arranging a lean from a syndication of foreign banks in order to consolidate CEP's debt and restructure its investments. Nost of CHP's invostments are very highly loveraged and in need of being recapitalized.

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In addition to the refinancing of CDF's debt, the Covermont's new policy is to decentralise the samagement of CDF's companies, to divect by celling them shorever possible to the private meeter, and to reconstruct CEF along the lines of a development banking institution. Thus far 3 firms have been sold, and CEF has published a list of 12 additional firms for sale with total assets estimated at USS 98 million equivalent. CEF is seeking outside assistance for its re-organization effort as well as for the sale of its assets, and the mission had discussions with CDF management regarding possible technical assistance from UNIDO for these purposes.

For a time in its recent history, i.e. between 1966 and 1973, CBF administered a fund for sub-loans to the productive rector. It received three global credits from the Interamerican Development Bank (IDB) totalling USS 30 million at an average cost of 4 percent p.a., for a period of 30 years with 10 years' grace, for on-lending to industry, mining, agriculture, tourism and artisanry. An additional sum of USS 1 million was provided to CBF for the same purposes by the Corporación Andina de Fomento (CAF) at an interest rate of 6 percent p.a. Out of the total to all sectors, 94 industrial enterprises received sub-loans totalling USS 2.9 million equivalent, and the amount channelled to SSI was about USS 300,000. The balance outstanding on all sub-loans as of October 1977 was USS 560,000. Terms for the sub-loans were 1 to 15 years at 12 percent p.a. interest.

CBF has been much criticized for poor administration of these sub-leans as well as for bias in the selection of candidates. Supervision was not adequate and many of the sub-leans have been in default. The mission believes that, without a major organizational restructuring, CBF is not in a position to administer effectively a lending programme to SSI.

Future plans of CBF include divesting of holdings and remodelling the institution along the lines of a development bank, but it is too early to predict the outcome. CBF's position in respect to financing SSI depends much on the restructuring of its staff and on priorities to be set. Clearly, with changes, it could be a candidate for the administration of financial and technical assistance to SSI. CBF is expecting a new line of credit from CAF for US\$ 10 million, but this would be mainly for agro-industry.

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4.1.3. BANCO DEL EGRADO (BANESTA)

BAMESTA has been singled out for special attention because of its potential role in the financing of SST. It was created in November 1970 to take over the functions of the Banking Department of the Contral Bank. The Bolivian Government is the sole chareholder in BANESTA, and although it is a Government institution its orientation is exclusively towards the private sector. It has the character of both commercial and development bank, utilizing public deposits as the basis for making short-term commercial loans and specially designated sources for making loans at lower interest and longer term to priority sectors such as manufacturing industry, agro-industry, export and construction. BANESTA is Bolivia's largest commercial bank, with about 24 percent of all deposits beld by the banking system and 44 branches throughout the country. Its mid-in capital by the end of 1976 was US\$ 2.5 million equivalent, capital and reserves US\$ 7.1 million equivalent, portfolio of commercial loans US\$ 33.7 million equivalent and portfolio of development loans US\$ 46.0 million equivalent. BANESTA has financed approximately 28 percent of all sub-losns rediscounted with the Central Bank under the Industrial Refinancing Fund (FR1), far more than any other single institution. It has also financed 37 percent of the sub-loans to artistans under the Central Bank's Artistanry Refinancing Line. Loan approvals in 1975 and 1976 by Sector and Department are given in Annox 15.

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Because of its experience in the FRI programme, its character as a Government institution with an obligation to corve the country, its organization with 44 branches strategically located to service remote areas, and its staff of professional: qualified to handle project appraisal and supervision (30 in La Paz and 40 in the field), BANESTA has been mentioned by the banking community as a logical choice for an institution to administer a special programme of lending and technical assistance to SSI. The management of BANESTA is clearly interested in assuming such a responsibility, as evidenced during an interview by the mission with BANESTA's president. Successful management of a special fund for SSI is not contingent upon Geotral Bank co-administration, according to the President of BAMESTA, and the mission concurs with this view. The President also stressed the importance of financial contributions from the Balivian Government as symbolic of the mutual assistance that is required to make this type of programme successful.

3.4.1.4. INSTITUTO MACTORAL DE PRETRVERSION (IMALPRE)

INALPRE is a public sector entity under the Ministry of Planning and Coordination, created mainly for the purpose of preparing profeasibility and feasibility studies for Coverament investments. However, a small part of its effort is directed to industry in general and to the private sector, but virtually none of it extends to SSI. INALPRE has a professional staff of 6 persons and a roster of local and foreign consultants on which to draw for specific projects.

Leans for pre-investment studies are granted by LNALFRE for periods of up to 8 years at a cost of $8\frac{1}{2}$ percent p.a., $6\frac{1}{2}$ percent being INALFRE's average cost for funds, leaving INALFRE with a 2 percent spread. Its financial resources are a fund of US\$ 14 million equivalent from the Government budget and various leans from the Union de Bances Bolivianes. Negotiations are in progress for a US\$ 5 million lean from IDB and another US\$ 5 million from the Canadian International Development Agency (CIDA). Sub-leans for pre-feasibility studies are made for a minimum of US\$ 5,000 equivalent and a maximum of US\$ 15,000 equivalent; for feasibility studies, a minimum of US\$ 15,000 equivalent and a maximum of US\$ 100,000 equivalent. SSI are generally neither willing nor able to spend these sums on investment studies as they are out of proportion to the value of their projects. Thus INALFRE cannot be thought of as rendering a special service to SSI.

PRIVATE COMMERCIAL BANKS

The private connercial banking system is made up of ten national and six foreign banks. These 16 banks have a total of 87 offices throughout Bolivia, for the most part concentrated in the departmental capitals. <u>Annex 16 shows locations for private connercial as well as private</u> specialized banks. Except for these banks that have been active in agricultural lending programs, the commercial banks have had a prevailing urban orientation and have lent on relatively short torm for traditional activities such as construction and connerces.

Total deposite registered in all private consercial banks were U3 \$ 225 million equivalent at December 31, 1976, an increase of 73 percent over the provious year. This phenomenal growth rate of the Bolivian banking system reflects the rapidly increasing usage of banking services throughout the country. Leans to the private sector from private commercial banks totalled US \$ 175.5 million equivalent at year end 1976, an increase of 42 percent over the provious year. The relative positions of private national, private foreign and the state-owned commercial bank in respect to deposite and leans at the end of 1976 were as follows:

TABLE Nº 36

BOLIVIA: Deposits and Loans of Private Commercial Banks in 1976 (in percent)

Private national banks	Deponits 49.6	Loans 42.1
Private foreign banks	26.5	26.7
Banco del Estado	23.9	31.2
	100.0	100.0

Source: Banco del Estado

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Sources of finance for the private sector and distribution of deposits within the commercial banking system are shown in <u>Annex 17</u>. Fotal deposite and portfolie of leans from each bank's own sources are shown in <u>Annex 18</u>. <u>Arnex 12</u> illustrates portfolie growth and distribution by sector among the private commercial banks.

Private national commercial banks are required to have a minimum capital of US \$ 1 million equivalent, whereas the requirement for foreign commercial banks is US \$ 2 million equivalent. The maximum debt/capital ratio in/30 : 1 for national banks and 20 : 1 for foreign banks. Reserve requirements are as shown in the following table:

TABLE Nº 17

BOLIVIA: Reserve Requirements for Private Commercial Banks (in percent)

	Demand Deposits	Savings Accounts
National banks	4 5	10
Foreign banks	45	15_

Source: USAID

Commercial banks must maintain a 10 percent legal reserve in respect to foreign loans when the loan is for less than two years and provided the sub-loans are granted to the productive sector for more than two years.

A law passed in 1975 requires every commercial bank to have at least 75 percent of its loan portfolic in credits to the productive sector and no more than 25 percent in credits to strictly commercial activities. A further restriction in respect to ters of loans was enacted in June 1977, requiring commercial banks to separtice their loan portfolios as follows:

TABLE Nº 18

(in pe	rcent)	•
	Tom	
	2 - 3 yoars	3 - 5 years
National banks	10	5
Existing foreign banks	15	10
Now foreign banks	20	15

BOLIVIA: Compulsory Portfolio Composition of Commercial Bunks

Sources

Banco Central de Bolivia

The banks had until March 1978 to make the corresponding adjustments in their portfolios. Those that do not comply are required to invest in bonds of the State. The intent is to manoeuvre the commercial banks from their traditional short-term lending to medium-term activities.

From the above, it is apparent that foreign banks are not treated by the same standards as the national banks. Nevertheless, in the recent past, at least 2 or 3 foreign banks had been making enquiries every week to the Ministry of Finance about establishing operations in Bolivia.

Interest is not paid on demand deposits. The interest schedule for sevings and time deposits is as follows:

TABLE Nº 19

DOLIVIA: Lonal	Interest on Savings and Time Deposits
	(in porcent) \$
Savings deposits	10
90-day doposits	10 3/4
180-day deposits	11 1/4
360-day deposits	11 3/4

Source: Banoo Central de Bolivia

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Dollar deposits yield up to 9 percent per annum. The consumer price index shows monual increases between 5 and 10 percent over the post three years. Due to the relatively low rate of inflation and a satisfactory trade balance, the possibility of a devaluation of the peso in the near future is not forescen.

In the banking system, the interest rate on commercial looms from the banks' own sources is a nominal rate of 15 percent per annum plus 7 percent per annum tax plus 3 percent per annum commission for a bank employees' benefit fund, for a total effective interest rate of 25 percent per annum. The interest rate on productive loans from the banks' own sources is a nominal rate of 15 percent per annum plus 1 percent per annum tax, for a total effective rate of 16 percent per annum. For certain areas of activity, e.g. production and marketing of cotton, soya, coffee, wood, corn, sugar and livestock, and housing construction and promotion of non-traditional exports, the 1 percent tax is removed leaving an effective rate of 15 percent per annum for loans under 2 years, increasing to 16 percent per annum for leans with terms of 2 to 5 years. The current interest rate for leans from external sources is LIEON plus from 4 to 6 percent per annum.

Additional foces, commissions, and practices can boost the effective interest rate several percentage points. Examples are front-end fees for closing and for supervision of loans, the practice of requiring prepayment of interest and fees, the practice of requiring compensating balances, a special fee for the benefit of bank employees amounting to 3/4 percent flat every 3 months on renevable loans, and a 1 percent university tax in the Department of Santa Graz. During the interviews, the mission encountered companies that were paying effective interest rates in excess of 20 percent on productive loans and in excess of 30 percent on commercial loans.

Maturities on commercial bank loans are normally 30 days to 18 months for working capital and 1 to 5 years for fixed capital. Security arrangements for short-term loans are usually in the form of personal

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guarantees. Mortgages are almost always required on loans exceeding 3 years, and the value of the collatoral must be 2 or 3 times the amount of the loan.

From discussions with Bolivian bankers, it is apparent that they are not interested in increasing their lending activity to SSI, which is in any case minimal, because of the perceived high-risk factor on such loans and because of the excessive cost of processing and supervision. At present the banks can afford to limit their lending activity to well-known and well-established clients. As an indication of their conservative practices, the loss rate on loans for the conmercial banking system as a whole is estimated at 1 percent of the portfolio. Arrears over 3 months affect less than 1 percent of the.portfolio.

Suppliers' credits denominated in hard currency for capital goods made in Argentina and Brazil are available through the Banco de la Nacion Argentina and Banco do Brazil respectively. Terms are generally 3 to 8 years at 7 to 8 percent per annum interest plus the guarantee of a Bolivian bank, which costs up to 12 percent per annum depending on the client's connections.

3.4.3. PRIVATE SPECIALIZED BANKS

3.4.3.1. BANCO INDUSTRIAL S.A. (BISA)

Due largely to the support of international financial institutions, BISA has played a major role in the expansion of the productive sector, and its activities are expected to increase significantly. BISA was founded in 1963 as a private development bank under the sponsorship of

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the Bolivian National Chember of Industries and USAID. Its abareholders now number 246. All are private institutions grouped as follows:

	Porcent
Private Bolivian banks	21
Bolivian firms and individuals	32
Bolivian mining enterprises	15
Foreign investors	32
	100

The largest shareholder is ADELA Investment Company, with #3 percent of BISA's share capital. Among the other foreign investors are the International Finance Corporation (IFC) and Doutsche Gesellschaft für Wirtschaftliche Zusammenarbeit (DEG), both having become shareholders in 1977.

BISA's main office is in La Pas, where 17 professionals are employed. There is a branch office in Santa Cruz, with 3 professionals, and a regional representative in Tarija. Full branch offices are planned for Cochabamba and Tarija in the near future.

 $\mathbf{\Gamma}$

As of September 30, 1977, BECA's total assets were US\$ 24.3 million equivalent. Capital and reserves were US\$ 3.7 million equivalent, with peid-in capital at US\$ 3.0 million equivalent. Long-term dobt was US\$ 18.9 million equivalent. The loan portfolio stood at US\$ 21.2 million equivalent, and equity investments at US\$ 319,000 equivalent. BISA's profit in 1976 was US\$ 349,000 equivalent after taxes and other deductions, representing a return of 15 percent or invested capital. Loans in arroars over 3 months affected 6 percent of tho portfolio, down from the 15 percent level of 1972. Although this shows a considerable improvement in BISA's portfolio, it should be noted that BISA's lending to industry involves more risks than that ' undertaken by the commercial banks, as indicated by the fact that the latter have a corresponding arrears position of less than 1 percent.

BISA's objectives are (1) to stimulate investment in the Polivian private productive sector and (2) to give financial and technical assistance to this end. Its principal activity is medium and long-term lending for periods of up to 10 years, but it is also authorized to buy shares in the enterprises that it assists, a function it has thus far exercised very little. In 1976 the loan portfolio was about 19 percent short-term and 81 percent medium and long-term. BISA's past and projected loan operations are shown in Annexes 20 and 21. BISA aims to have at least 10 percent of its pertfolie in leans to SSI in the future, but up to now only about 6 percent of loan approvals have been for small companics. BISA defines SSI as those with equity not exceeding US\$ 50,000 equivalent and which employ not more than 50 porsons; thus its loans to SSI are difficult to reconcile to our definition. Ninety percent of BISA's loans are in dollars and 10 percent in pesos from its own capital and from loans discounted with the Central Bank.

In its 13 years of operations, BISA's cumulative resources have been in the order of US\$ 35 million equivalent, the principal sources of credit being:

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International Back for Reconstruction and Development (IBRD) US Agency for International Development (USAID) Kreditanatalt für Wiederaufban (KFW) Banco Contral de Bolivia (FRI) European Economic Community

In addition, during 1977 BISA succeeded in tapping the international capital markets with direct loans from a consortium led by the Atlantic International Bank Ltd. of London, together with the Royal Bank of Canada, Libra Bank Ltd., the First National Bank of Chicago, and the Deutsch-Südamerikanische Bank.

The cost of BISA's financial resources varies from one source to another ar from one loan to another from the same source, e.g. 3.25 percent to 8 percent p.a. in the case of IDB, zero to 6 percent p.a. from USAID, 8 percent p.a. from the World Eank, LIEOR plus 2 percent p.a. from the Atlantic International Bank, LIEOR plus 1.75 percent p.a. from the First National Bank of Chicago, and 9.5 percent p.a. from the Deutsch-Südamorikanische Bank. Uncommitted resources as of 30 September 1977, were USS 5 million equivalent in domestic currency and USS 1.7 million in foreign currency, the latter being principally from a 1976 IBRD loan of USS 10 million for industry and mining. BISA is presently negotiating a new USS 15 million credit from IDB. Also, as a shareholder in the newly formed Arab-Latin American Bank, BISA may have access to new lines of credit in the future.

Interest rates charged by BISA are 15 percent p.a. for working capital loans in domestic currency up to 3 years, 12 percent p.a. on dollar loans up to 10 years for fixed assets using funds mainly from IBRD and LIBOR plus 4.5 percent p.a. for working capital loans up to 2 years using dollar sources. Other fees are: a 1 percent commitment fee on the undisburned balance of a loan, soon to be increased to 1.5 percent, and a 2 to 4 percent closing and supervision fee on the full amount of the loan.

Loans of under US\$ 50,000 equivalent are usually channelled through commercial banks and carry the guarantees of those banks at a cost to the client of up to an additional 3 percent p.a. In the latter case, HISA holds the commercial bank responsible for collection and loan supervision. Where BISA directly manages the loan, it usually holds a mortgage equivalent to 2 to 3 times the amount of the loan.

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BISA's plans for the future include issuing bonds in order to raise local currency for lending. It also aims to expand its activities to areas of the country in which it is not presently operating. Fifty percent of its activity is now in La Paz and 25 percent in Santa Cruz, where it has been established for only two years. 0

BISA has been designated as the channel for an IBRD loon of US\$ 2.05 million to SSI in the La Paz area, this being a component of IBRD's new US\$ 22.5 million Urban Development Project for La Paz. SSI is herein defined as business with a paid-in capital of less than US\$ 20,000 equivalent. IBED estimates that about 140 smallscale enterprises will benefit from this loan, assuming the average loan requirement is about US\$ 17,500. Terms will be 5 to S years plus up to 3 years of grace. The interest rate on these loans will be 12 percent p.a. plus up to 6 additional points depending on the assessed risks or appraisal work required. A relatively high spread is needed to cover the administrative costs associated with this type of loan, for additional feasibility studies, and to allow for possible bad debts. A special appraisal unit will be set up within DISA for the selection, monitoring and supervision of the small firms that are expected to seek credit under this scheme. BISA is expected to give assistance in financial and cost accounting to borrowers under the programme.

BISA is respected as a highly professional institution, well-managed, well-organized and efficient in its operations. It is a major domestic source of medium and long-term financing for industry and mining. However, it is unable to satisfy the fast growing demands of private industry. It has been criticized for neglecting promotional activity, particularly in outlying areas of the country and particularly among small companies. Especially in Santa Cruz, where all BISA's leans have been channelled through local commercial banks, BISA is thought to be weak in its promotional work and slow in satisfying local needs. For that reason, local business groups in Santa Cruz, including the Regional Development Authority, are planning to establish their our development bank (see section on 3.4.3.5). At the same time, the commercial banks in Santa Cruz are not patisfied to earn only 3 percent as intermediarien for lowns originating with BISA, believing this to be inadequate componention for the many problems inherent in the collection and supervision of these loans.

Backed by the international financial community and enjoying a reputation for professionalism, ETCA is expected to continue to play a very important role in lending to industry and mining, including ever-increasing attention to SS(.

5.4.3.2. BANCO DE FINANCIAMIENPO INDUSTRIAL S.A. (BAPINNA)

In November 1974 a private financial institution, known as Banco de Financiamiento Industrial S.A. (BAFINSA) was formed in Oruro by a number of small mining companies. Its headquarters was moved to La Paz in Pebruary 1977. BAFINSA now has 1,070 Bolivian shareholders, most of them mining companies, and 30 tegether have a controlling interest. BAFINSA's paid-in capital is US\$ 1.2 million equivalent. Employees number 12, of which 7 are in La Paz and 5 in Oruro.

DAFINSA's policy is to extend short and medium-term credit up to 5 years to industry and mining. As with all non-commercial banks, BAFINSA is not allowed to accept deposits of any kind. It concentrates on export financing for mining companies. Subsequent to criticism for granting leans to its own shareholders, BAFINSA adopted a rule of notlending to any company in which a shareholder of BAFINSA has an interest greater than 20 percent. It intends to assist borrowers in project preparation, but very little of this has been done thus far. EMFINSA plans to maintain leverage at 5 to 1, and to increase its paid-in capital to US\$ 1.5 million equivalent in the near future. Local resources are its own capital plue lines of credit from the Central Bank. Other sources of funds are lines of credit from U.S. banks, particularly Citybank and Eanco de Boston.

BAFINSA's maximum term for fixed asset loans is 5 years, and for working capital loans 12 to 18 months. As with commercial banks, the interest rate for local currency loans to industry is 16 percent p.a. The spread on loans from foreign sources is between 2 and 3 percent. The maximum loan granted is US\$ 100,000 equivalent and the minimum US\$ 25,000 equivalent. Borrowers are expected to maintain a debt/equity ratio no greater than 1:1. Preferred security arrangements are mortgages

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on real entate (but not on plant and equipment), and also the assignment of seles proceeds.

Theoretically, the resources of this financial institution could be made available to SSI but it is doubtful that this will occur due to the administrative problems and expense involved in lending to SSI and BAPINSA's limitations in respect to personnel for evaluating and supervising leans. In the opinion of RAFINSA's management, very little reliance can be placed on the official financial statements of small companies, and each flow projections must be made for every case. At the same time, RAFINSA is of the opinion that SSI are highly profitable, the average rate of return on invested capital being in the neighbourhood of 30 percent. This largely coincides with the mission's findings.

3.4.3.3. BANCO DE INVERSION BOLIVIANO S.A. (BIBSA)

Founded in September 1977, BIBSA is Bolivia's newest specialized banking institution. Its five shareholders are all in the private sector. One is a holding company that was formed to purchase the Bolivian interests of W.R. Grace and Co.; another is Bolivia's largest private mining corporation. Eighty percent of the equity is ounced by Bolivians, the balance by a Canadian national. BIRGA's paid-in capital is US\$ 1 million equivalent, to be increased to US\$ 1.5 million equivalent by September 1978. BIBSA plans to build up its resources to US\$ 25 million equivalent over the next 5 years. depending largely on the support of the U.S. banking community. Lines of credit have already been established with American Express, Nanufacturors Hanovor, Wells Fargo, Continental Illinois, First National of Dallas and Dow Banking Corporation of Switzerland, among others. Leverage is planned at about 9 times paid-in capital including contingent liabilities. The intention is to have a lending mix of 2/3 at 2 to 5 years and 1/3 at short-term. Total lending commitments for 1977 were expected to be between US\$ 5 and 6 million equivalent. BIBSA has 8 full time employees, 5 of when are professionals.

BIRSA's policy is to concentrate on short and medium-term dollar loans to the productive sector, defined as agriculture, ranching, industry, mining and tourism. Short-term credit will be extended to cover working capital needs, modium-term for financing

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industrial machinery and new plants. It is also allowed to take equity, and is considering doing so in licu of foos which it would otherwise charge for its services. EIFSA also hopes to place a number of large Government and private sector berrowings with international banks.

On short-term loans the nominal interest rate charged is 15 percent p.a., the effective rate considering front-ond fees and stamp taxes amounting to about 20 percent p.a. The terms for long-term leading very according to the foreign source of funds, with a spread of 3 to 4 percent p.a. over the cost. Maturities must not exceed 5 years incomuch as this is the maximum term for funds obtained by BIBSA from foreign commercial banks for on-leading. BIESA's statutes prohibit leading more than 20 percent c its capital to a single client. Security requirements are a first mortgage as well as personal guarantees of the borrowers.

According to BIBSA's management, the mission's definition of SSI does not embrace companies that are among its clients. Not one of the companies in its present portfolio of loans totalling approximately US\$ 1 million equivalent would qualify as SSI, all bling relatively large enterprises. BIBSA would not be interested in lending to SSI because of the high work input required. If such loans were made, BIBSA would charge a loan supervision fee to compensate for the extra time and effort involved.

3.4.3.4.

CORPORACION FINANCIERA DE BOSTON S.A. (FINANCIERA BOSTON)

Financiera Boston, 100 percent owned by the Boston Overseas Financial Corporation, was opened in La Paz in June 1975 in connection with obtaining approval for the establishment of the Banco de Boston as a commercial bank. Financiera Boston's paid-in capital is US\$ 1.5 million equivalent. The staff at its only office in La Paz includes 5 professionals for project analysis.

Financiera Boston has been engaged mostly in medium-term project financing for up to 5 years for industry and agriculture. In 2½ years of operations it has financed a total of 43 projects for approximately US\$ 13 million equivalent. Very few of these would qualify as SSI under our definition. Two-thirds of the leans have been for new projects and one third for expansions. Only 3 were chort-term loans for working capital. The average loan size is. US(350,000 equivalent, and the average term is 28 months. Its main source of funds is Eurodollar leans from the parent company, and all sub-lears have been in foreign exchange with the exchange risk to the berrower. The interest rate is LIPOR plus 2 to 3 percent p.a., which averages out to about 13 percent p.a. Arrears are not significant, and there has been only one default out of the 43 loans. Clients représent geographically 7 out of the 9 departments in Bolivia.

According to Financiera Foston's management, the net spread is about 3.5 percent, and it is just breaking even. Since its affiliated company, the Banco de Boston, is engaged in similar lending activities, the two companies plan to merge as soon as the Bolivian authorities grant permission to do so.

.5. CORPORACION FINANCIERA DE SALTA CAUZ S.A. (COFINSA)

A private development bank for medium and long-term leans to industry and agriculture is in the process of formation in the Department of Santa Cruz. Principal sponsore are the Regional Development Authority \mathcal{V} and the Banco de Santa Cruz de la Sierra, which is Bolivia's largest private commercial bank. COFINSA is a priority project for the Regional Development Authority, which finances this and other projects through a royalty of 11 percent which it receives on the market value of all natural gas and petroleum produced in the Department of Santa Cruz. The Regional Development Authority will be a 20 percent shareholder in COFINSA, and in addition plans to provide a lean of US\$ 5 million equivalent under quasiequity terms.

In addition to lending medium and long-term, COFINSA intends to underwrite securities, issue marketable paper, issue guarantees and letters of credit and finance feasibility studies. It does not intend to engage in commercial banking activities or make equity invostments. COFINSA's initial paid-in capital will be US\$ 1.0 million equivalent, to be increased to US\$ 2.5 million equivalent within 5 years. It intends to seek leans from the World Bank among others, and plans to secure financial resources totalling

1/ Comité de Obras Publicas de Santa Cruz.

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US3.17.5 million equivalent by the fifth year of operations. The sponsore intend that COFINSA should eventually operate nationally and not be limited to the Santa Cruz area.

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Santa Cruz businessmen are dissatisfied with the paneity of assistance they receive from Government institutions and from BISA and for that reason are creating this new institution to cope with the shortage of financing for investment projects. COFINEA's sponsors estimate that the shortage of such financing for all projects in the Santa Cruz area will amount to about UES 25 million equivalent per year over the next 5 years.

2.4.3.6. CORPORACION FINANCIERA PEL SUR (CODESUR)

The Departmental Development Corporations of Tarija, Potosi and Sucre are actively promoting the creation of CODESUR as a regional financial corporation with practically the same objectives as: COFINSA. A consulting firm, hired by the three corporations, has prepared a feasibility study for COMESUR, and negotiaions with the Contral Government in La Paz are underway in order to obtain legal authorization and financial support for the new organization.

B.4.3.7. BOLIVIAN DEVELOPMENT FOUNDATION (FBD)

FDD is a private, non-profit institution founded in July 1971. It belongs to the Council of American Development Foundations, which was created in Santo Domingo in 1972 for the purpose of channelling private resources and capital assistance to Latin American countries. The FBD has distinctly social objectives while working in the financial, technical, educational and cultural fields. As a non-profit organization, it receives tax-free status from the Bolivian Government. FBD operates with a very small budget. Since inception it has had less than US\$ 100,000 for on-lending to eligible borrowers. The organization has only 5 employees, all based in La Paz, but it has plans to open centers in Cochabamba, Santa Cruz and Tarija, where it will organize technical assistance to serve those who benefit from FBD loans.

Sources of finance have thus far been contributions from private persons and organizations, a loan from the Runamerican Development Foundation, contributions from the National Chamber of Industries, donations from USAID, the proceeds from public health activities, and funds provided by BISA for small industries and handlerafts. These altogether financed 27 Joans tetalling US\$ 97,500 equivalent between 1974 and 1977. Fifty parcent of these by value went to small businesses and artisans for a total of 18 loans with an average size of US\$ 2,700 equivalent. Repayment periods varied from 1 to 3 years and interest rates from 8 to 14 percent p.a. Due to lack of funds there has been no further lending activity for the past 8 months.

The average interest spread to FBD has been 2 percent, which is insufficient to cover costs. Twenty percent of the loans have been in arrears and in need of rescheduling. The general policy has been not to require guarantees.

FBD has a plan to create a service unit to provide technical assistance to borrowers. Help will be given in teaching techniques of production, administration and commercialization, internal organization and accounting and techniques related to credit. For this service, FBD is considering charging a commission of 1 percent flat on all loans.

With its limited resources, both in respect to finance and personnel, FBD can only operate on a very small scale. It is in continuous need of soft loans and grants. Because of its social orientation, however, it has been recommended by the Corporación Andina de Fomento (CAF) as an organization that could be expanded to play a more important role in lending to SSI.

CONCLUSIONS AND RECOMMENDATIONS

4.

For Bolivia, SSI is of major importance as a source of employment, a means to promote industrialization, and an opportunity for the formation of skilled labour and experienced entrepreneurs and managers. In addition, the premotion of SSI could complement ongoing programmen for developing rural areas and improving the economic conditions of the urban poor. In conclusion, Bolivia must develop a modern and healthy SSI sector as a basis for the successful economic and sound social development of the country.

Despite the apparent profitability of most SSI, the possibilities for further growth and modernization are limited under existing conditions. The mission therefore recommends that the Government

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provide specific fiscal incentives and financial and technical assistance to SEL in order to improve the quality of management and the efficiency of operations. Such efforts must be complemented by a more positive attitude on the part of the Government towards the small entrepreneur, who at present feels alienated from public institutions.

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In order to achieve the above-mentioned goals, the mission offers the following suggestions:

RECOMMENDATIONS REGARDING FINALCE

4.1

The few existing credit facilities dealing with SSI are couly and restrictive. The relatively high cost of credit to SSI is of less concern to the entrepreneurs than are the short maturities, excessive collateral requirements, and complicated and lengthy application procedures. Considering the fact that small-scale industrialists are largely unaware of the benefits to be gained from credit utilization and that project preparation is a major problem for them, it is apparent that technical assistance is needed along with financial assistance.

SSI's past experience in receiving a relatively minor allocation of loans from FRI resources and in obtaining little ausistance from commercial and specialized banks leads the mission to propose a package of measures for a new line of credit especially for SSI. This package includes the following three complementary measures:

- a) Creation of a special credit line for SSI
- b) Creation of a guarantce fund
- c) Provision of special assistance for the preparation of credit applications and applications for Government incentives.

a) Creation of a special line of credit for SSI

The proposed line of credit should cover both fixed investment and permanent working capital. The mission estimates that 80 percent of the total future financial requirements of SSI can be covered by internal cush generation and by other credit facilities presently available to SSI. As described in Section 2.3, investment by SSI for replacement and expansion of fixed assets is predicted to be about US\$ 20 million annually. The need for a new course of financing, conservatively estimated at 20 percent of the total requirement, is therefore US\$ 4 million per year. Assuming that the entire credit is to be disbursed over a 5-year period and subsequently revolved, the total amount of new financing required would be roughly US\$ 20 million.

The needs for permanent working capital are estimated as follows: Annual sales of SSI are in the order of NSS 300 million equivalent (see Table 4 of Statistical <u>Anner</u> 7). Assuming that the working capital requirement is equivalent to about two months' sales, or USS 50 million equivalent, and that the need for a new source of funds amounts to onefifth of this amount, then a sum of about USS 10 million should be earmarked for permanent working capital.

It is therefore recommended that the total amount of a new line of oredit for SSI be fixed at about USS 30 million. Based upon the mission's observations, the organization best equipped to administer such a special line of credit, including appraisal and supervision, is the Governmentowned Banco del Estado (BANESTA). As described in Section 3.4.1.3, this choice is based upon BANESTA's past experience and demonstrated capability. Less desirable alternatives could be the Corporación Boliviano de Fomento or the Central Bank utilizing, in the case of the latter, the entire commercial banking system.

b) <u>Creation of a guarantee fund</u>, along the lines of the system that is being organized by the Central Bank with USAID support, in order to reduce the risk factor. In the opinion of the mission, this is a sound programme filling a very important need to make credit facilities available to companies or persons that lack sufficient collateral.

In its presently proposed pilot project form, the Central Bank's oredit guarantee programme will be limited to special types of SSI in rural areas. In the mission's experience, however, most SSI are located in urban areas and will therefore be excluded from the guarantee scheme. By increasing the financial support to the guarantee fund, the coverage could be extended so that all sub-sectors of SSI in all locations would benefit from easier collateral arrangements. The Central Bank and USAID have pledged to support the guarantee fund to the extent of USS 3.75 million. The mission proposes that initially this amount be doubled through participation by other institutions so that loans to a substantial number of urban SST could be covered in the pilot programme.

- 71 -

c) <u>Provision of special assistance</u> for the preparation of credit applications and applications for fiscal incentives. In the opinion of the mission, this assistance should come from an institution outside the banking system, thus separating the cost of such assistance from the cost of money. These services should be free of charge or at most carry a nominal fee. The Government should be encouraged to absorb a portion of the cost as promotional assistance to SSI.

The existing organization which, in the opinion of the mission, would be best prepared to provide this type of assistance is INBOPIA. INBOPIA is an autonomous public sector entity, whose mandate even now is the providing of technical assistance programmes aimed at increasing productivity of SSI. There would be an advantage in terms of objectivity in having a neutral agency such as INBOPIA assist in preparing credit applications, which would then be acted upon by the institution or institutions administering the credits.

RECOMMENDATIONS FECAPDING TECHNICAL ASSISTANCE

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In addition to assistance to SSI in preparing credit and incentive applications, the need for technical assistance in matters of accounting, financial management, and commercialization was amply documented in the course of the mission's interviews with 94 companies. An initial sum of at least US\$ 500,000 (equivalent to 10 man/years) is suggested for a technical assistance fund aimed at alleviating some of the problems caused by lack of basic business knowledge.

Once again, INBOPIA is considered by the mission as the most appropriate institution, which, after a thorough review and possible revision of its present policies, organization and staffing, could channel technical assistance and extension services to SSL. This technical assistance should concentrate on the following areas:

- i) Informing SSI of incentives and nources of financial and technical assistance.
- ii) Preparing applications for credit and/or Covernment fincal incentives.

- iii) Providing extension cervices, especially in the fields of financial management (general, cost and cash accounting), industrial management (product design, guality control, materials balance and flow, production techniques, industrial safety and plant maintenance and repair), and operational management (procurement, commercialization, and market research).
 - iv) Identifying investment projects and preparing market and feasibility studies.

It is obvious that Government financial support to INBCPIA should be substantially increased before this institution can be entrusted with carrying out an effective technical assistance programme. International assistance to provide foreign expertise, train professional staff, and supply equipment to INBOPIA would also be desirable.

Alternatively, technical assistance could be administered by the Banco del Estado, in conjunction with administering a lending programme, although probably not without some significant restructuring of that organization. It could also be administered by the Central Bank, utilizing the same facilities as exist within the new lending programme for agribusiness and artisanry. The Bolivian Development Foundation already has plans for a business advisory assistance programme on a limited scale, and this could be expanded. Such assistance could also be administered by or through the semi-autonomous regional development corporations, cuch as CONDEPAZ and CONDECO. These organizations are already giving financial and technical assistance to small farmers and, at least as expressed by CONDEPAZ, would welcome the opportunity to extend this aid to small businesses in rural areas.

The micsion advocates the creation of independent management centers, similar to those existing in other Latin American countries. These centers could be established with Government grants in the beginning and could later cover a major part of their operating costs through training fees. For SSI entrepreneurs, training fees could be nominal. Seminars for SSI chould be carefully designed to cover basic knowledge of management, administration, production techniques, and commercialization. They should have a practical orientation in order to complement the accumulated experience of small industrialists. RECOLUENDATIONS REGARDING THE LEGAL AND ADMINISTRATIVE MEMORK

- 73 -

In order further to strengthen SSI, the matter of official policy should be reviewed and legislation amended. In particular, the mission recommends the following:

a) <u>Preparing a development plan for SSI</u>, in which policies, strategies and targets are clearly defined. The impact on SSI of large projects in the industrial sector as well as in other sectors of the economy, such as agriculture, education, health and transport, should be considered for determining priority activities for SSI. Programmes such as the one linked to the automotive industry of the Andean Group will create a number of possibilities to provide components and services through SSI. International organizations should be in a position to assist in preparing such plans.

b) <u>Improving existing legislation</u> through the amendment of existing investment incentives or the issuance of a special law for SSI. New legislation should cover existing as well as new enterprises. The incentives that are the most urgently needed and which should be readily attainable are:

- i) Exemption of custome duties on imported equipmont and raw materials.
- ii) Income tax reductions in case of reinvestment of profit,
 either in the same company that generated the profit or
 in other existing or new enterprises.

iii) Export incentives.

Regulations concerning the availability of financial and technical assistance should be included in this legislation.

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222 22	1.253.1	1,233.1	1, 326-0:	6-636-1	1,400.7	1,425-5	1,478.1	55-15	1,5:5.5	1,552.0	1, 605-7	1,:50.7
	263.7	210.8	278.1	ۇ.5.6	5-62	301.2	30.5	63-14	318.2	327.1	336.3	345.7
PCCCET	536.4	550-5	**\$ 953- *	580.7	1-955.	. 012-5	629.3	36-91	5-6-9	665.0	6ē3.6	7.20.7
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CC.1.134C	239.6	301.1	316-0	224.5	333-3	342.3	ž•15€.	27-66	351.5	371-6	362.0	3.202
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	1001	52.0	243.2	0-2-3	150.6	913-4	2.2.2	63	3- 252	<u>951.8</u>	5-216-1	1.2.5.2
	624.0	640.8	656.1	613-9	6941	712.8	132.4	64-52	752-9	7:4-0	7-5-7	8:6.C
H	135.0	7-961	143-5	147-14	151-4	:55-5	159-8	21-20	164-3	5-13:	3-61:	173.5
FLTD: {incl-withmu: specifies retif.) 39.4	د: مند) 30.4	£.05	41.6	1.52	6.53	45-1	5- 3	- 87-6:	5-12	¢ 3-9	50.3	51-7
THE VELTER	3-322-4	<u>4.053.6</u>	4,153.1	4.275-5	4.371.1	<u>5-500-6</u>	2.613.5	07 07	2.753.3	5.503.2	5-053-5	

Ciriz Tacicul de Folsation y Wirienda 1976 "Bernitados Anticipados Auartreo" Republica de Bolivia, Ministerie de Flaucaticuto y Condinacion, Incitius Macional de Estatutica, Page 26, Suble 4. 1 STEER

Average andred growth rate of population is estimated at 2.1% during 1965-1915 and at 2.6% during 1916-1900. According to the Flam of Economic and Soutial Development 1975 - 1920 - Remue - (Orgon 122 and 126) publiched by Republich de Bolivia, Xinistorie de Flamsandrup Coerciracion de la Frendencia de la Fredicion. Des 1975-1976 growth rate has been entirated at 2.75% by the minutes. Lote:

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LANCE FORS IN URGH AND FORM ANALY AND AND POURS DEFECTIONED FORTHERE BASED OF THE -OFF HAVDAM CENTRE OF FORMATION AND PURCHAS

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(STOCIES IN SERVICIES)

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	3:2.0	<u>و.دد</u>	हगाज्ञ	זיונר	<u>8-24</u>	1992	1752	22.5	2.20.5	5-23	<u> </u>	152
25. 22	7777	114.3	7-157	184.2 -	2112	196.0	265.5	216-1	25:.2	22.6	31.5	
	33-7	30.0	979	7.16	60.1	34-1	63-6	37.1	67-3	13.3	71.2	;
Internet	6-79	103.3	9-19	115.6	71.5	12.3	13-1	129.4	50.1	136.9	54.7	!!
	5 431	5-125	[25]	1.11	161.2	22.6	170-5	246.2	1.6.3	250.5	155.7	712
	87.8	70-1	34.)	14.1	20.0	1-81	31-7	33.0	32.5	87.3	3: -5	5
Tanenapo	96.8	111.8	102.5	118-3	106.4	13.1	1:4.7	132.4	1173	1.021	12:-2	
TITE!	8r.)	25.0	2:12	21.5	2.6	:-2	2.1	30.8	2 . 2	32-6	0-12	
· • • •	र न्द्र		<u>160</u>	67721	191	7117	3-161	119-0	<u>196.5</u>	5-21	. 37,52	
	130.3	C-:L	137.8	73-55	9-57:	6-61	134.3	84-5	162.2	63.4	170.5	••••
1	2.2	18.0	39-92	19.0	3 .2	7-62	20.8	22.3	31.3	. 23-5	5-2E	
	72	9.9	2-6	10.4	2.7	11.1	2-9	:2.2	0.5	12.9	3.2	13.1
	<u>543.</u> 8	620.6	8 81.1	.	120.1	58.2	152-1	1/:-5	7-122	2.22		

J This information is based on data indicated for writies and populated centros" in publications "Recultades Provisionales" by depresented, publiched in Narch 1977 by the Manuscence de Plankanence, Indicate Januared de Estadistica. ١

2 Kinns differences between fables 3 and 2 are due to rounding

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Gencel Note: possible differences in population growth between under and areas, between individual Departments on Regions, as well as the influence of migration from runel to under areas and to be meglected, because reliable information is not available. The avarage yearly growth mates of the production scorning to the note on Table 4 may also been applied for the Isbour force. Possible influences due to change of the application are notating to the note on Table 4 may also been applied for the Isbour force. Possible influences due to changes in the age arminice of the population are notating to the over and short pursule.

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TOITTLE Shares of Joonorio Sectors in Grees National Precient

	<u>0121</u>	01	2161	€¥I	7151		<u> 9151</u>	
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Suint	3, 610-5	8-7	1, 203-2	9.1	12122	9-5	2,556.8	C-3
Karifsoturing Industry	4, 965. 3	11-9	5.555.2	12.0	. 6,496-5	12.4	7, 570-3	12.5
Civil Construction	1,712.0	4.1	1,792.4	3.9	1,993-5	3-8	2,429-0	4
Zrarzy, Transport, Cernesisatione	3, 156.2	7.6	3,616.0	7-3	4,437-5	8.5	5, 232.0	6.3
Correroe, Ectals + Restaurants	2, 639-1	20.6	9, 066-7	19.6	0°575°5	17-8	11, 371-0	19.3
Other Sectors	11,754-4	3 8.3	13,619.5	3.5	16-131-4	30.7	17, 654-0	6-82
Total Gross Letional Product	£1.586.3 2	100.0	46.212.1	103.0	2.44.2	100.0	58.529.1	100.0
(2) Arong Lemma			11.:		2.5		:2.4	
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- 1976 Little Predmotion Walma and Walue Added by Major Branches of Kumfacturiar Industry

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(Xillions of Bolivian Pesus)

		197.0			1 		1976			1	15.	1 <u>710 - 1575</u>
	2002	Gres Prod. Value	Taiue Added		2/2	Gross Pr	Gross Prod. Talue	Value Added	ticed.	. 2/1	Charge of Gross Fred. Value Va	hargo of luc Talze Addad
İ	8	v	.; ;;	54	₩2	\$	v	\$	N		: 22	
31 Ned Intering	4,541.8 41.1	41.1	1, 639.4	33-0	36.1	1, 639.4 33.0 . 36.1 7, 030.5	6-12	2, 622-5	35-6	37.3	+ 54-3	+ 63.0
32 Tatile and Leather	3,742.0 33.8	33-6	1,707-9	34-4	\$2.6	1,707-9 34-4 45-6 3,640-8 21-7	21-7	1,676.6	22.7	46.1	- 2.7	- 2.8
33 Eod and Fundance	34.3 3.1	3-1	149-8 3-0 43-1	ۍ ه	43-1	5.4.5	3-3	23.3	3.2	42.8	+ 36.8	. 55-7
M Paper and Printing	157.6	157.6 1.4	62.1	1.3 39.4	39.4	339-5	2.0	135-1	1-8	39.8	+ 215.4	+ 2:7-6
B Casted Laurey	1,323-9 12.6	12.6	954.0 19.2 63.7	19.2	63.7	2,531.8	15.1	1,722.3	2.4	66. C	+ . 82.3	+ 80.5
36 Cerecie Industry	406-1	3-7	240-8	4-9 59-3	59-3	2-617	5-6	463.5	6.3	59.5	+ 51-9	+ 92.5
37 Lrow/Steel-San-ferrous Notalis	17.2	61	5-3	0-1	30.8	0.1 30.8 1,014-1	6.0	126.8	1.7	12.5	£ ~ <u>5</u> 966+	+2:92-5
38 Xechentert + Elec. 22. 139.5 1.3	139.5	1.3	61.6	1.2 44.2	4-2	415.3	2.5	.78.1	2.4	42.9	+ 197_7	+ 190 t
H Char Real. Industries 322.3	322.3	2.9	144-5	5.9	44.8	42,3.8	2-9	211.9	2.9	43-4	+ 51-7	9~2
144 144	11,062.7 100.0	•	4.255.4	8	101	16,784.8	0.0	7, 370-1	100.0	43.9		+ 53.4

Seurca: Berco Incional de Bolivia, Teodonel Economio Accounte, Mericod, and unpublishod figures.

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BOWERLE THE WERAL FARMER PONCE IN 1976

	TOTAL URBAU LABOUR FORCE	762.7	100
4.	Unemployed	60.6	8
3.	Independent Professionals with relatively high income (lawyers, dectors, etc.)	45.8	6
2.	Under-employed persons with irregular working hours and fluctuating relatively low income	236.4	31
1.	Exployees with fixed working hours and regular income	419.5	55
	IDE 1: UNPAN LABOUR GEOUNS	Persona (1000)	Share in Total (%

Source: National Institute of Statistics, "Investigation on Employment, September 1977," a sample survey in 4,400 households.

TABLE 2: URBAN EMPLOYMENT BY SECTOR

		based on 1975 distribution
6.0	6.0	
39.0	39.0	305.0
5.8	5+5	45.8
12.5	12.4	103.0
4.2	5•5	45.8
5.9	5.5	45.8
9.9	9.4	78.5
16.7	16.7	138.8
-		762.7
	4.2 5.9 9.9 16.7	4.2 5.5 5.9 5.5 9.9 9.4

Source:

- 1. "Plan de Desurrollo Economico y Social 1976-1980", Volume 1, pp. 129-130.
- 2. Ministry of Labour, "Estadictica Laboral 1970-1975", pp. VIII and Tables 12 and 40.
- 3. Discion estimates based on the September 1977 investigation on urban employment, existing Labour statistics, and recent data on the urban labour force.

Government Institution Reporting	Artisar) 77 7	Small-4	scale	Medium Large (Tota Employ	
	No.	\$ <u>.</u>	No.	*	No.		No.	ų,
Social Security	1,950	7.6	7,956	31.0	15,756	61.4	25,662	100.0
Ministry of Labour	1,181	5.7	4,702	22.7	14,831	71.6	20,713	100.0
Inbopia	111,249	66. 6	25,729	15.4	30,176	18.0	167,154	100.0
Ninistry of Planning and Coordination	39, 577	28.8		1 and m 1/0. ,610	edium tos 71.2	ether	137,187	100.0

EMPLOYMENT ACCORDING TO SIZE OF INDUSTRIAL ENTERPRISE BOLIVIA:

Information collected by the mission during visits to the following Source: institutions: ...

- Social Scourity: Computer print-out prepared upon request of the 1. mission.
- Ministry of Labour: Computer print-out showing employment, enterprise, 2, location and industrial activity.
- INBOPIA: Unpublished report determining parameters for a work 3. programme.

Ministry of Planning and Goordination: "1978 Programs Report on the 4. Five Year Flan for Economic and Social Development 1976-1980," page 5, unpublished draft.

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STATESTICAL INFORMATION ON METERPRISES VISITED NOVEMBER 1977

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(AS RECORDED ON QUESTIONNAIRES)

TABLE 1: LOCATION OF ENTERPRISES

THI	TABLE 1: NUM	BER OF)	TIMS		PERCENT
La Pas	•	38		·	48
Cochabamba	·		•		21
Sta. Cruz		9		•	11
Tarija · · ·	•	5	·	• •	6.
Orvro	•	5			6
Bucre	•	4	•	• .	5
Potosi .		3			3
Total	• •	79	• •		100

TABLE 21AGE OF ENTENPRISES

AOR IN YEARS	NUMBER OF FIRES	PAROLAT
• • • • •	74	21
3 - 5	20	13
5 - 10	12	15
10 - 20	26	20
Nore than 20	• • 34	. 31
Total	79	100

Avorage age: 18 year

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NO 8 ROLLINA DEP	NUMBER OF FIRMS	PRICENT
Up to 10,000	16	20-
Up to 20,000	13	. 17 .
Up to 10,000	16	. 20
Up to 60,000	9	11
Up to 80,000	9	11
Up to 100,000	27	21
Total	79	100
•		•

Average invoctment in machinery and equipment US \$ 44,000

TABLE A: S	IZE AS	DEFERMINED	BY AIRUAL	SALES	<u>(1976)</u>
------------	--------	------------	-----------	-------	---------------

•	. MUMBER OF FIRMS	PERCENT
11p to 50,000	18	22.8
50,000 to 100,000	20	. 25.3
100,000 to 200,000	24	17.7
200,000 to 400,000 ·	14	17.7
400,000 to 600,000	7	8.9
600,000 to 800,000	A	5.0
800,000 to 1,000,000	1	1.3
¥.A.	<u>1</u> 1/	1.3
	79	· 100. 0

Average annual sales: US\$ 188,000

<u>}</u>/

One company shut down for the entire year due to fire.

TANDER 548108 AS DETENSIONED BY DUCTOR OF MORKERS

WORKIERS	NUMATION OF PARAS	PERENT
5 through 10	20	. 85
11 through 15	34	18
16 through 20	12	15
21 through 25	9	11
26 and more	24	31
Potal	79	100

Average number of workers per firm: 21

1/ Exoluding owner.

ABLA GI TYPE OF INPLOYISE	
······································	IT.

•••••	NUMBER OF EMPLOYE	<u> </u>	· 1	ROSHT
Administrativo and Clerical	1 116 ;			7
Bkilled workers	478			29
Semi-skilled workers	631		•	39
Non-skilled workers	413	•		25
Total	1,638			100
Average assets per employed	C1	VB	\$ 6,700	
Avorage fixed investment in equipment per employee:	n machinery and	US	\$ 2,100	
Average sales per employee	1	US	\$ 8,950	

TABLE 7: STIE OF THDUCTREAD ACTIVETY

	<u>.</u>	ABER OF	FIRMS	TERCENT
,	Food processing	12		15.4
	Leather and Leather products	11	•	14.1
	Hood and wood products	12		15.4
	Textiles and wearing apparel	14		18.0
	Metal products	13	•	16.6
	Building materials	6	· · ·	7.7
	Others	10		12.8
~	Total	78	· .	100.0

TABLE 8: ANNUAL SALES BY INDUSTRIAL ACTIVITY (1976) 17

	•	And the same we have
3,778		25.8
. 2,101	•	14.4
1,527	•	10.4
2,494	•	27.0
1,084		7.4
1,336		9,1
·2,333	•	15.9
14,653 2/	•	100.0
	2,101 1,527 2,494 1,084 1,336 -2,333	2,101 1,527 2,494 1,084 1,336 -2,333

1/ Based on data from 78 firms.

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2/ Includes exports, mainly leather products, wearing apparel, and handiorafts, for a value of approximately US \$ 405,200 equivalent (2.8 per cent of total sales.) TEGENICAL EVALUATION OF SSI OPERATIONS BASED ON VISUAL INSPECTION <u>1953</u>

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BAN KATERLA UTILIZATION ູຊ R 8 컭 7 V?. VILIERTON 2/ CAPACITI 9 3 8 ۲۰۶ TECEDIC JOCT PEOCESS 2 8 30 13 MACTUREST and TANKATAGE 8 2 Ż XATERIALS EANDLING 8 z 3 2 1 LAT-OUT PLANT T 8 え R 7 V TOL EVELOPIES P SUB-STATULES SECTORISTICS 88

This corresponds to companies where the production facilities were located on premises far from administrative offices and therefore impossible to visit during time allotted for interview.

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2/ For capacity utilization, good squals greater than 90%, satisfactory 60%, sub-staniard less than 60%.

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		n 7	·	• · .
BALES HANKET	NUMBER OF FIRST		PERCENT	•
Excepsive competition from large industries and/or artisans	6		5	
Insufficient demand	24		18	
Competition from contraband	8		6	
Excessive down-time due to excessive product diversification	2	•.	2	•
Low quality of product and denign	1		1	•
RAN MATERIALS			• • •	. •
Insufficient supply	8	•	6	
Excessive cost	3		2	
Low quality	5		4	•
TECHNICAL ASPECTS	•			Ϋ́,
Prequent breakdowns	5		4	
Production bottlenecks	15		12	
Inability to operate machinery	3		8	•
FINANCIAL PROBLEMS	• • •			
High production cost	3		2	•
Lack of working capital	26			. •
LABOUR	•			•
Unreliability and low- productivity	3		. 2	•
Lack of skilled lubour	•		6	
INFRASTRUCTURE				
Righ transportation costs	5			
Lack of transport facilities	3		8	
TOTAL NUMBER OF EXPLANATIONS	130		100	

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TABLE 11: PROJECTS FOR EXPANSION AND DIVERSIFICATION

(IN THOUSAND U.S. DOLLARS)

POOD PROCEDSING	NUMBER OF <u>PROFECTS</u> 9	Pixed <u>Investorn</u> 2,245.00	<u>T CHEDIF</u> 1,825.0	PERCENT OF TOTAL FIXED THVESUSENT 21.3
LEATHER + LEATHER PRODUCTS	10	1,615.00	•	15.3
NOOD + NOOD PROPUCTS	9	863.90	660.9	8.3
PEXTILES + WEARING APPAREL	12	2,212.00	2,122.80	21.0
Setal - Products	11	2, 372.50	1 ,811,5 1	22.6'
UTLDING MATERIALS	5	715.00	575.3	6.8
THERS		49 9.30	362.8	4.2
OTAL	63	10,527.70	8,689.3	100.0
OFBIGN EXCHANGE	•	5,867.70		55.0

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		La Pas	Cochebarha	Santa Crus	Tarija	Sucre	20tosî	تكتين	Teđal
		*	÷	67	~	4	E	£	61
No. No. <td>artics of Francessians Sarges Safet Averages</td> <td>8 . 12</td> <td><u>8 2 6</u></td> <td><u>2</u> 2 8</td> <td>8 = 8</td> <td>, 8: 8:</td> <td>21</td> <td><u>ה</u>א מיימ</td> <td></td>	artics of Francessians Sarges Safet Averages	8 . 12	<u>8 2 6</u>	<u>2</u> 2 8	8 = 8	, 8: 8:	21	<u>ה</u> א מיימ	
The second se		410,300 8,000 113,200	640, 900 11, 190 001, 4211	21,530 21,530 21,530	<u>)1</u> 88,17 88,18 88,18	334, 300 33- 300 235, 610	133, c30 15, 510 74, 550	134 , 130 114, 130 56, 130	640,500 8,500 1.1,1,100
131,330 136,000	7		10 10 10 10 10 10 10 10 10 10 10 10 10 1	71,128 21,738	2 ,100 2 ,100 2 ,100	17, 000 21, 900 21, 900	65, 520 8, 730 <u>33, 54</u> 3	5: 330 6:130 24: 353	13: - 53 2-53 2-153
#c1 635, 30 ² 600,000 761, 500 311, 400 115, 600 91, 500 ia, 000 36, 000 40, 000 31, 500 31, 500 25, 750 21, 500 ia, 000 20, 710 405, 500 164, 500 31, 500 23, 750 21, 500 ia, 000 20, 710 405, 500 164, 350 54, 150 113, 500 24, 600	¥	133, 950 4, 033 49, 230	540,500 5,900 135,490	511.500 9,900 174,220	198.000 2,500 <u>59,350</u>	64, 930 5, 030 <u>3:, 660</u>	13,000 15,700 41,650	33, 000 2, 715 2, 530	5-3,558 2,553 75,960
			600, 000 36, 000 235, 770	761, 5:30 40, 050 405, 5:00	373,400 31,500 168,350	115.000 28,730 26,750	25 5, 340 10, 700	93,500 2,420 45,410	855-930 855-930 1821-820

y Based on date from 4 films, 1 not reporting.

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2/ Zased on drig from 37 firms 1 operated for 2 month period only.

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(*) Deta are baced on 1976 actual and 1977 estimated figures. Woofficial and thorsfore more realistic data have been used wherever possible and un preference to official financial statements propered for the tex authorities.

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1976-1977 (*)

	2 S	Cochabaetha	Stata Crus	Tarija	222	Potecí		100
Buther of Firms in Sapie	R	£	•	~	+			c'e
Current Rutio	22 firms >24 firms >24 firms >24 firms >24 firms >25 fir	10 215	8 firme>2:1 1 firm <2:1	1	, 1	74	77	
Total Debt to Total Acasts	1) firms > 50% 12 firms < 20%	1 fire > 500 7 fires<205 1 fires<205	2 Class > 905 4 Class < 205 4 Class < 205				8 년 - 23 2 6 년 - 23 2 6 년 - 23	
iong-fers bits to Capital Structure	 4 firme > JCS 30 firme < 200 11 firme more 	Constant of the state of the st			S firm >300			
Gross Berings ² to that Assots	10 films > 200 11 films < 200 3 films 100	1 (111-25) 8 (111-25) 8 (111-25) 8 (111-25)	• 11-11 > 200 10 10 11 4 50 10 10 0000	3 Cirra > 202 M	1 111 × 200 1 111 × 200 1 10100	2 11-14 >23 10 12-14 >23 10 10-16	2 年1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
Set Profit to Total Ameta	8 2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	14 firms>105 1 firm < 155 Be locces	● fires >105 16 fir < 外 16 losses	2 21-11 V CO	a tins vice 1 fill A W B letts	no firms >100 no firms >100 no locces	2 fiere > 105 3 fiere > 105 1 fiere less	
Bet Profit to Det North	8 111 212 12 111 213 14 111 213 2 1111 213 2 1111 213	10 11월 24 12 12 12 12 12 12 12 12 12 12 12 12 12	8 CTT V 9 CTT	- 11:4 > 21:4 > 21:4 > 20 - 21:4 > 20 -	第一日 第一日 第一日 第一日 第一日 第一日 第一日 第一日 第一日 第一日	m fires>]cr m fires>]cr m fires>1cr m fires < %		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
cross Zeraing ^y 20 Job Sales	5 11-22 2205 16 11-22 2205 3 11-22 205 3 11-22 205	12 f1	S firms > 20% no firm < 5% no locces	3 firms > 203	S times 202 < 51 - 52 202 < 51 - 52 202 < 5	o frieves trieves bloces		2011年1月 2011年1月 21日日日 21日日日
fet froilt to jet Sales	6 firm >10 5 firm >10 5 firm loss	2 111 ~ 2 - 111 ~ 2 - 111 ~ 2 - 111 ~ 2 -	0 8 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		2 2 1 1 2 2 3 2 3 2 3 3 2 3 3 3 3 3 3 3			いた。 1975 - 1

Supporting tota oriented only in 10 Pas, Cocheberte and Sante Gras — 62 firms total Devised before interest and taxes

2 Supporting that obtained only 2 Dentings before intervet and 4 first superings 1 F.A. 5 first superings 2 F.A.

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(*) Fais are build on 1975 actual and 1977 estimated figures. Unofficial and therefore note realistic data have bree used whenever possible and is preference to official finandal statements propered for the tax authorities.

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· BENEFITS AND INCENTIVES GRANTED BY THE LAW OF INVESTMENTS

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	Contraction	8 81	1	.	ža	j .	n N	Ya (1)	5 GI
		8 6	100 fe 7 Years (20th Years (20th Years) Forther the following 5 years).		ľa	t	, n , pr	;;;	र १७ १७
	Minn	& 001	I		Ya	1	1	Ye	5: 00 1
	Zartriss Lacuration	1	1	10 %	. 1	្រ ខ្ល ខ្ល	1	1	1
X	Taird Category	છા ર	30 % 7 Years (30 % served reduction device the 2 (ollowing).	ន ខ្ម	87.	10 %	Yes	Ха	. 8i 8
NEW INDUSTRY	Sumai Catagory	100 ಚಿ	75 75 7 Years 6 Rejuction of 30: 30 end 4075 the 5 follow ing vers)	100 8	к;	100 %	řa Ta	Чa Х	\$\$. 83
NE	First Cetegory	100 %	TY Yerrs 7 Yerrs (20% anneal reduction during the joulowing 5 years).	100 %	Ycs	100 %	Yes	Ya	x 8
	ZEVENIS AND INCENTIVES	- Exception from import durins and related additional taxes, except charges for outsoms werelversing services and contribut fors, on anticinety and equipment imports; parts imported discrevich and vehicles to be used in the process of praduction force time—only).	- Exeption of custum duties and related additional taxes and sertings, imposed by Decreter No. 03:00 of Jun 27/58 un imports of taw material and supplies nut produred in the county, except customs warelousing services and consular fees.	- Refund of customs duties on taw mutchiels and sup- ands imposind and incorpotated to the products exported, if this benefit has not brun altects granted.	- Tux exemption on transfers of critical and credits cither domestic or function which have been entirely inve- sted in the approved project.	- Energrine of national departmental such municipal taves and university surchages on production and sales of manufactured gnode expansed.	- Option to adhere to the annual depreciation granted to fixed assess.	-10 years rational, departmental and municipal tax eventuation on new constructions of the computer for even alonger on numicipal public service. Examplets for one- time only of taxes on real estate intorporated as capital of the Company.	- Preparticual tex exemption on profits, of Rolivian comparies that invest such profits for the purchase of new shares issued by companies on which there is foreign expiral participation. Such exemption will be granted until nucleond exploit participation receipes \$1.65.

In the Departments of Beni, Pando, Chuquisses, Terijs, and other areas of lesser economic and social development, a 10 years tax exemption on profits and total income derived from an approved investment will be granted. 1

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> Test protoction will be granted temporarily on the basis of technical-oconomic studies made by the Ministry of Industry and Commerce. ŧ

CTHER BENERITS NOT RELATED TO TAXATION

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Lond for the ent-libburner of industries will be anythed by the Government, even though they may not be a part of industrial complexes. Such evend tend concernions for liversest and apriculture, development, within legal limitations.
 for Surgest to special legal provisions.

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