Ⅶ．総合所見

A. インダストリアルコミュニティー

1. 工業の地方分散は、5カ年計画の中でも部門間の連関強化、輸出振興、中小企業振興などとともに重点政策の一つとして取り上げられている。

2. 昨10月のプロ確調査団はこの点に関し、マニラへの過度の集中を緩和すべき第二、第三の工業地帯育成の緊急性に注目、DTIが示したインダストリアルコミュニティー(IC)構想を具体策の一つとしてプロ形実施を提案した。

3. 他方でフィリピン政府は、地域間経済格差の是正を緊急課題としており、各地に発展の核となるべきRegional Growth Center (RGC)を指定している。最近注目を浴びている特別経済地域、いわゆるエコゾーン、もRGC内に設置されることになっている。

4. IC構想は一般論として、RGC開発推進の有効な手段となりえようが、ある程度の工業基盤がすでにある地域でなければ、短中期の可能性は考えにくい。DTI - BOIは後進地域にもこの構想を適用したい考えを示したので、当方はそのような地域には別のアプローチをとるべきと説明した。

5. ICの内容についてDTI - BOIは、民間主体の工業団地開発を所与のこととして住宅や病院、アメニティー等よりなるIC案を提示、当方の考え方との乖離が明らかとなった。

6. 本格調査のC/Pについても先方は、DTI - BOIを主張、DTIのもとにBOIやPEZA等の関連機関を含むステアリングコミッティーが望ましいとする当方と対立した。トロイカ方式とか地方政府機関（各RGCには推進母体としての委員会等が設置されている）という代案もあり得よう。

7. PEZA法には工業団地にかかわるBOIの機能はPEZAに移管されるとある。これに対するBOIの抵抗が上の5と6で述べたことの背景にあろうと想像される。大竹専門家より後日電話にて、DTI、BOI、PEZA、NEDA等が同席しての意見調整を数回経なければまとまるまいとの助言を受けた。

8. 結局、当方よりTOR案を送付、先方がそれにコメントという手順ですりあわせを行うことに合意した。BOIとは非公式の意見交換として直接やりとりすることにしていたが、
JICA事務所への最終報告の際に同事務所経由関係機関に送付ということになった。当方より提示すべきTORの素案を別添する。

9. 今回調査した3候補地に限れば、最も基盤の整ったカガヤンデオロ・イリガン コリドール (CIC) を対象として工業団地を中心とするF/Sを提案することになろうが、今回の議論より次のような予備的段階を設けることが望ましいとの感想をもった。すなわち、事例RGC 5 - 10カ所を選び、実施のタイミング、適合業種などを考慮しつつ候補地選定を行うことを通しての計画手法移転の段階である。（この結果、RGCの類型毎に大略の処方箋が提示されよう。）

10. F/Sを実施する候補地の最終選定に当たっては、その後各地に同様のIC建設していく際のモデルとして、比較的早期に具体的な成果を上げうる地域という条件を重視すべきであろう。こうした条件を加味すれば、IC及び事例RGC候補地の選定にに当たっては、後発の開発地域への影響力も大きいことから、先方の提示する地域以外でも開発可能性の高いマニラ近郊、第二カビテ、バタンガス、スービック、クラーク、セブ島も含めて検討すべきであろう。

11. 上で述べたIC候補地選定のため、早期に再度プロ形実施が望まれる。なお、IC候補地選定とF/Sが同一のSWで実施される場合は、候補地選定後、ステアリングコミッティーに然るべき地方政府機関を加えることについての日比協議を予定しておくべきであろう。

12. 各地方の自治体、地方事務所、商工会議所などのRGC（さらにはIC）実現への熱意は非常に強いものがあった。中央官庁ではBOIが格段の熱意を示した。

B. 計量

1. ITDI幹部に対し当方より前回のプロ確調査団およびそれ以降のいきさつを話し、ITDIによる計量への取り組みの現状、特にフランス政府による援助内容につき説明を求めた。先方はその中でフランスの支援は各種の単位に関し国家標準関連機器の供与、専門家派遣および訓練を含むが、電気・電子関係はカバーされていない旨述べ、日本による協力を希望した。同席したフランス人専門家から、協定により機材供与はフランス製に限定されているところ、電気・電子関係の計量機材メーカーが同国には少ないので、この関係の協力は同国からは難しい（訓練は可能）との発言があった。

2. 供与機材のリストを含むフランス国援助の概要についての資料が後日送付されることになっている。

8.April.1996

To whom it may concern of NEDA, DTI,BOI,PEZA

Sub; Submission of draft TOR on "Development Study for Industrial Community Development Project"

With regard to the captioned subject, JICA would like to present you with a attached draft Terms of Reference which is to be a part of the application for JICA's Development Study.

As we are aware of the process that how we had proceeded it so far, starting on last October, we sent a Project Identification mission and at that time, we found out the need of industrial decentralization and rural areas development, and Philippine side suggested us the idea of Industrial Community Development in Tuguegarao , Tacloban and/or Cagayande Oro -Iligan -Corridor for the purposes.

Upon the results of the Project Identification mission, Japanese side felt some feasibility about the IC Project, so JICA sent a Project Formulation mission to Philippine again to select the best site among aforementioned three sites and to draft the TOR for JICA's Development Study on "Industrial Community Development Project" through field survey and discussion ,then we, as well as Philippine side, agreed that CIC had a potential for IC development among candidate three sites.

So, the draft TOR attached herewith was made by Japanese side on the basis of this mutual understanding between two sides.

We hope Philippine side to determine the national consensus on this matter among the concerned people and let us know the result.

If the draft TOR is coincided in Philippine side, please submit a formal request for JICA's Development Study attached with the TOR.

Your quick response will be highly appreciated and smoothen the cooperation.

Sincerely yours,

J. Fujiwara

Jiichiro FUJIWARA

Director General ,
Mining and Industrial Development Study Dept.,
Japan International Cooperation Agency

Application for
the Technical Cooperation (Development Study)
by the Government of Japan

1. Project digest

(1) Project Title : Feasibility Study of an Industrial Community in Cagayande Oro -Iligan - Corridor (CIC) of the Philippines

(2) Location : To be selected through the Phase 1 of the Study

(3) Implementing Agency : Department of Trade and Industry of the Philippines (DTI) as the overall implementing agency with a Steering Committee composed of the related agencies such as the Board of Investment (BOI), the Philippines Economic Zone Authority (PEZA), the National Economic Development Authority (NEDA), ...? and relevant local government organization of the 'Location'.
(number of staff of the agency, etc. to be given *)

(4) Justification of the Project

-present condition of the sector : The country needs more industrial development for creating employment, increasing export earnings, narrowing income disparity among regions, etc. Further industrial development, however, is most likely to take place in Manila or its vicinity, which will worsen the quality of life in Manila and make industrial activities in the capital region more difficult, to the extent such that prospective foreign investors might look for other countries. It is one of the most urgent tasks for the Government to provide foreign and domestic investors with attractive sites alternative to Manila.

-sectoral ... * (plan to develop RGCs, Eco-zones, etc)

-problems ... * (congestion in Manila, etc)

-outline of the Project : The IC will have one or more industrial estate(s)/zone as its nucleus with electricity, telecommunication, water and other basic infrastructure according to the requirements of industries to be located in the industrial estate(s)/zone. In addition the Study will examine other components the IC should accommodate so that the location will be attractive enough to investors.The 'other IC components' will include facilities for housing, education and training, urban amenities, etc. and various services which support businesses.

-purpose (short-term objective) of the Study : To formulate a conceptual design of an Industrial Community (IC) in a location selected through the Phase 1 of the Study, and to examine the financial and economic feasibility of the development of the IC through Phase 2.

-goal (long-term objective) of the Study : To develop an industrial community which offers investors a site for factories alternative to Manila thereby the excessive concentration in Manila

will be relieved and the industrial dispersal will be promoted.

-prospective beneficiaries : Direct beneficiaries will be the locator industries of the industrial estate/zone in the IC. Indirect beneficiaries will include the economy of the area surrounding the IC.

-the Project's priority *

(5) Desirable or scheduled time of the commencement of the Project *

(6) Expected funding source and/or assistance (including external origin) *

(7) Other relevant project, if any *

2. Terms of reference of the proposed Study

(1) Necessity/Justification of the Study : As the development of the proposed IC will make use of existing and planned facilities and such facilities will be built by various fund sources, there must be a comprehensive overall plan as well as an individual plan and feasibility to be examined on the overall as well as individual basis.

(2) Necessity/Justification of the Japanese Technical Cooperation *

(3) Objectives of the Study : To formulate a conceptual design of an Industrial Community (IC) in a location selected through the Phase 1 of the Study, and to examine the financial and economic feasibility of the development of the IC.

(4) Area to be covered by the Study : To be decided through the Phase 1 of the Study.

(5) Scope of the Study : See Appendix 1.

(6) Study Schedule : The Study will be carried out in 12 - 15 months.

(7) Expected Major Outputs of the Study : (a) Conceptual classification and outline strategies for potential areas of CIC, (b) a conceptual design of the IC to be developed in the selected location, and (c) a financial and economic feasibility examination of the IC.

(8) Request of the Study to other donor agencies, if any *

(9) Other relevant information ,if any *

3. ~7. These items are as same as attached "Standard Model of Terms of Reference".

Note : * ... Please the implementation agency fill in.

Appendix1. Scope of the Study

A.Phase 1 of the Study

1.Review of the background of the study
- 1-1 Trends in Philippine economy
- 1-2 Structure of industrial sector
- 1-3 Production and trade in the industrial sub-sector
- 1-4 Investment climate and foreign investment
- 1-5 Existing EPZs and industrial estates

2.Present policy environment
- 2-1 National development policy
- 2-2 Industrial development policy
- 2-3 Tariff and trade policy
- 2-4 Industrial location and regional development policy
- 2-5 Human resources development policy
- 2-6 Environmental policy and pollution control policy

3.Review of the industrial investment in the past

4.Investment demand survey
- 4-1 Potential foreign investors to Philippine
- 4-2 Potential foreign investors to the candidate site in CIC
- 4-3 The investors' perception towards Philippine

5.Study on foreign investment promotion
- 5-1 Consolidation of the organization for IC promotion
- 5-2 Public relation efforts
- 5-3 Improvement of industrial licensing systems
- 5-4 Development of practical procedures for implementing industrial policies
- 5-5 Other measures which are available for IC

6.Establishing the criteria for the selecting the project site

7.Selection of the Project site (the IC candidate site will be selected out of CIC)
- 7-1. Examining the availability of basic infrastructure
- 7-2. Examining the availability of business support facilities and services
- 7-3. Examining the socio-economic conditions of the nearby cities and surroundings
- 7-4. Examining the existing industries and future development prospects
- 7-5. Examining the availability of land area for the development of the IC
- 7-6. Establishing the priority of potential areas as the IC site

B. Phase 2 of the Study

1. Present conditions of the area around the IC candidate site
- 1-1 Topography and land utilities
- 1-2 Infrastructure (water supply, electricity, telecommunications, transportation, sewerage and waste water, industrial solid waste)
- 1-3 Accessibility
- 1-4 Industrial Sub sector
- 1-5 Industrial products
- 1-6 Existing industrial estates
- 1-7 Labor force
- 1-8 Training / education / research facilities
- 1-9 Housing conditions
- 1-10 Medical and hygiene facilities
- 1-11 Urban Amenities
- 1-12 Social and environmental situations

2. Formulation of the conceptual design of the IC
- 2-1 Potential industries
- 2-2 Development scale (zoning and layout)
- 2-3 Land utilization
- 2-4 Traffic planning
- 2-5 Land reclamation planning
- 2-6 Infrastructure
- 2-7 Operation and management system
- 2-8 Construction schedule and procedure
- 2-9 Cost estimation

3. Social environmental assessment
- 3-1 Land acquisition
- 3-2 Employment related issues
- 3-3 Slums
- 3-4 Water rights
- 3-5 Access roads
- 3-6 Traffic conditions and forecasts
- 3-7 Protection of soil from effluents

4. Evaluation
- 4-1 Economic and financial evaluation
- 4-2 Social and environmental Impact

5. Conclusion and recommendations

Ⅷ．収集資料

1.収集資料リスト

PEZA

1. The Special Economic Zone Act 1995 R.A No.7916*

BOI

1. TOR for Promotion of Investments Industrial Communities
2. The Corridor of Power*
3. Establishment of Downstream Light to Medium Industries for Promotion in the CIC Tuguegarao *
4. CLARK SPECIAL ECONOMIC ZONE PHILIPPINES *
5. Conclusions and Recommendations; Eastern Visayas Regional Agro-Industrial Growth Center and Site Plan of Eastern Visayas RGC *
6. Accomplishment Report on BIMP-EAGA Initiaves for 1995 *

Leyte Tacloban (Region 13)

1. 紹介パンフ
2. List of Proposed on - going and Popeline Project *
3. Survey Plan of Lide Peninsula (地図) *

Cagayan de Oro - Iligan - Corridor (DTI Region 10)

1. Transport Study *
2. Cagayan de Oro - Iligan - Corridor Master Plan *
3. Northern Mindanao socioeconomic profile 1996 *
4. Northwest Luzon Growth Quadrangle Master Plan *

Iligan City

1. 紹介パンフ
2. Metro - Iligan Regional Agri-Industrial Center *
3. Business Profile *

Lanao del Norte Municipality

1. Province of Lanao del Norte *

Philippine Sinter Corporation

1. 紹介パンフ

PHIVIDEC Industrial Estate in Misamis Oriental

1. 紹介パンフ
2. PHIVIDEC Industrial Estate Master Plan 1995 *

Subic Bay Freeport

1. 地図
2. 紹介パンフ
3. A Guide for the Foreign and Local Investors

CLARK

1. 紹介パンフ

JETRO

1. PEZA登録企業リスト
2. Subic Bay Investors
3. 日系企業リスト（日本商工会議所編）

ITDI

1. 紹介パンフ "Our Business is industry" *
2. Annual Report 1994 *
3. Standards and Testing Division *

購入資料

FACTBOOK ON THE PHILIPPINE REGIONS 1995 Edition *

（* JICA図書館保有）

2．質問票A
各省庁あて

4.March.1996

QUESTIONNAIRE TO DTI／BOI／PEZA ON DEVELOPMENT OF INDUSTRIAL COMMUNITY

The project formulation team would like to have information on the following items in order to clarify your plan for development of IC

1.Background

*1-1.How did the idea of the industrial communities (IC) come to be proposed (background and rational) ?

1-2.How is the idea of IC related to the regional autonomy concepts in the 1991 Regional Government Code, regional growth center of the Regional Agricultural and Industrial Centers Program under the Mid-term Philippine Development Plan 1993-2002, Ecozones under the 1995 Special Economic Zones Act ? Are there other policies and programs relevant to IC ?

*1-3.How and why have the three proposed locations for IC, Tuguegarao, Cagayan de Oro - Iligan Corridor, Tacloban been selected ? Has the selection been authorized (if yes, how ?) or is it still on the drawing board ?

2.Industrial Communities

*2-1.Please describe your idea of IC in the three proposed locations. In this regard, we would like to refer to the statement made by a Filipino official at the meeting between DTI/BOI and the JICA mission headed by Mr.Naruse on October 19, last year (hereafter referred to as the Oct.19 meeting). She said that an initial study of IC had been made by BOI. We would certainly like to get a copy of this report and to be explained by a BOI official in charge of this study in detail. In more particular, we are interested in hearing about following :

a) What kind of industries you expect to be located in the industrial estate (IE) in the ICs in question ? -Local resource based, export oriented processing, local market oriented, or others? Foreign investment or domestic companies ?

b) What will be the likely size of the IE ?

c) What other components of IC you have in your mind ? -settlements (for foreigners or for local and for executive or for workers ?), service facilities (please give some details), etc.

2-2.We hear that some IEs existing and planned in and around the proposed ICs, such as Phividec IE and Cagayan de Oro IE, and Leyte Industrial Development Estate. Please give particulars such as the year to start sale, area of site, area of sale , already sold area, price of one piece sale / rental , industrial estate/ free trade area's operating body ,data about operating enterprises(name , nationality ,type of industry, no.of labor , operate-started year ,etc).

*2-3.What organization is expected to be the executing agency of the each IC component in the implementation stage - the central or local government, private company, or others ? Where do you expect the necessary fund from ? And who will be responsible for the coordination of all these.

2-4.Please let us know who own the land where ICs will be built ; whether there will be any difficulty foreseeable in using the land.

3.Regional Settings

3-1.Please briefly describe the area around the proposed IC with supporting statistics ; population, labor, living standard, main economic activities, major cities, etc.

3-2.Please provide us with information in some detail of the existing and planned infrastructure facilities - transportation, telecommunication, electricity and water supply, education and training, government services, etc. in and around the proposed ICs; eg, the depth of water,quality and quantity of wharf facilities, etc. of sea ports.

3-3.Please provide statistics of the nearby sea / airports in recent years; frequency and origin / destination of regular shipping / air services, quantity of passengers and cargo handled ,etc.

3-4.Please give information of the points of tourist attraction, if any, in the vicinity of IC with supporting data such as number of tourist facilities, number of foreign and local visitors, etc.

3-5.One Filipino official mentioned in the Oct. 19 meeting that there are arising environmental problems in CALABARZON area because of industrial development.
Please describe the problem and countermeasures you have taken.

3-6.Will there be any environment concern in and around the proposed ICs we should bear in our mind ?

4.Other Relevant Information

4-1.Please provide statistics of foreign and domestic investment; number of projects, amount of investment, volume of export expected, number of persons to be employed for each of the recent 5-10 years and the latest cumulative total; by industry, by province, by country of origin, by foreign /domestic, with / without incentives, by IE / EPZ /outside, etc.

4-2.Please give information of such components as described in 2-1 -c) above which are provided in the Subic and Clark IC, for comparison purpose.

4-3.Please tell us about the outline of the BIMP-EAGA and North Luzon - EAGA cooperation programs and progress made so far.

4-4.Please provide us the details of the integrated regional development plan for the North - West Luzon Quadrangle. If there exist such plan formulated for other 2 regions under our study, please let us have their details.

Note: We would appreciate very much if information of the items marked by * above can be given to us (through JICA Manila Office) by March 8 as we visit Tuguegarao and Tacloban in the following week. We expect detailed presentation by you and discussion of all the items above in the meeting to be held on March 21.

3．質問票Aに対する回答

BOIより

ANSWERS TO QUESTIONNAIRE ON DEVELOPMENT OF INDUSTRIAL COMMUNITY

1. How did the idea of the industrial communities (IC) come to be proposed?

The Board of Investments (BOI) aims to disperse industry throughout the Philippines so that Filipinos in the countryside shall have the opportunity to enjoy the benefits of economic growth experienced in the urban areas. It has tried many times before to use the incentives under investment laws as a tool to direct investments to other parts of the country particularly to less developed areas. However, the traditional urban areas and their surroundings remain very attractive. Investors expressed that the lack of infrastructure including human settlement facilities has deterred them from locating in the other parts of the country. The BOI, therefore, envisioned the inclusion of the development of industrial communities in the Investment Priorities Plan (IPP).

2-1. Please describe your idea of IC in the three proposed locations. In this regard, we would like to refer to the statement made by a Filipino official at the meeting between DTI/BOI and the JICA mission headed by Mr. Naruse on October 19, last year. She said that an initial study of IC has been made by BOI. We would like to get a copy of this report and to be explained by a BOI official in charge of this study in detail. In more particular, we are interested in hearing about the following:

a. What kind of industries you expect to be located in the industrial estate (IE) in the ICs in question? Local resource based, export oriented processing, local market oriented, or others? Foreign investment or domestic companies?

IE covers the following areas of concern:

1. By scale of operation of enterprises in IE

- catering to small, medium, and/or large-scale industries complying at the same time with the zoning regulation of the locality.

2. By type of industries

- light, medium, and heavy industries

3. By orientation of operation

- firms producing for export and/or local market

4. By ownership

- IE may take into its premises local firms, multi-national and/or joint ventures

5. By type of activity of firms

- firms engaged in production and/or services

2-3. What organization is expected to be the executing agency of each IC component in the implementation stage - the central or local government, private company, or others? Where do you expect the necessary fund from? And who will be responsible for the coordination of these?

National and local government units.

Coordinating for funding and implementation will be a joint effort - from local and/or national government or the developer themselves.

2-4. Please let us know who own the land where IC s will be built; whether there will be any difficulty foreseeable in using the land.

The developer shall show proof of ownership of the land to be developed and must conform with the land use regulation in specific areas where it will be located as determined and required by local government, Housing and Land Use Regulatory Board (HLURB) and/or Department of Agrarian Reform (DAR).

QUESTIONNAIRE TO PEZA ON DEVELOPMENT OF INDUSTRIAL COMMUNITIES

1. BACKGROUND

1.1 How did the idea of the industrial communities (IC) come to be proposed (background and rational)?

ANSWER: For PEZA, the concept of establishing industrial communities came into being as early as June 21, 1969 with the legislation of Republic Act 5490. Such law called for the creation of the Foreign Trade Zone Authority and the establishment of a Foreign Trade Zone in Mariveles, Bataan. RA 5490 was crafted to achieve the following objectives:

a. stimulating, expediting, encouraging and promoting foreign commerce as a means of making the Philippines a vital center for international trade;
b. strengthening the country's foreign exchange position;
c. hastening industrialization;
d. overcoming domestic unemployment; and,
e. accelerating the development of the Philippines and insuring the economic security of its people.

Three years later or on November 20, 1972, RA 5490 was subsequently amended with the issuance of Presidential Decree No. 66 which created the Export Processing Zone Authority (EPZA) to ensure the accelerated development and efficient operation of the export processing zone in Mariveles, Bataan **and such other zones as may be established in the country.**

In cognizance of the substantial contributions generated by the operation of four (4) government-owned and eleven (11) privately-developed export processing zones in the country, Republic Act 7916 or the Special Economic Zone Act was subsequently legislated on February 24, 1995. It resulted in the evolution of the EPZA to the Philippine Economic Zone Authority (PEZA), which new entity was given a broader mandate and tasked with greater responsibilities. The intent and objectives of RA 7916 are detailed as follows:

a. establishing the legal framework and mechanisms for the integration, coordination, planning and monitoring of **special economic zones, industrial estates/parks,** export processing zones **and other economic zones;**

b. transforming selected areas in the country into highly developed agro-industrial industrial, commercial, tourist, banking, investment, and financial centers where highly trained workers and efficient services will be available to commercial enterprises;

c. promoting the flow of investors, both foreign and local, into special economic zones which would generate employment opportunities and establish backward and forward linkages among industries in and around the economic zones;

d. stimulating the repatriation of Filipino capital by providing an attractive climate and incentives for business activity;

e. promoting financial and industrial cooperation between the Philippines and industrialized countries through technology-intensive industries that will modernize the country's industrial sector and improve productivity levels by utilizing new technological and managerial know-how; and,

f. vesting special economic zones or certain areas thereof with the status of a separate customs territory within the framework of the Constitution and the national sovereignty and territorial integrity of the Philippines.

1.2 How is the idea of IC related to the regional autonomy concepts in the 1991 Regional Government Code, regional growth center of the Regional Agricultural and Industrial Centers Program under the Mid-term Philippine Development Plan 1993-20202, Ecozones under the 1995 Special Economic Zones Act? Are there other policies and programs relevant to IC?

ANSWER: As earlier mentioned, one of the objectives of RA 7916 is to transform selected areas in the country into highly developed agro-industrial, industrial, commercial, tourist, banking, investment and financial centers. Section 7 of the aforestated law further provides that such industrial communities or ecozones are to be developed, as much as possible, into decentralized, self-reliant and self-sustaining areas, managed and operated by PEZA as a separate customs territory with minimum national government intervention. As such, each ecozone should be equipped with transportation, telecommunications and other necessary facilities to generate linkages with other industries within and beyond its territorial jurisdiction, and employment opportunities primarily and preferably for the benefit of its own inhabitants and those of nearby towns and cities. It may, if it so desires, establish mutually beneficial economic relations with other entities within the country, or subject to the administrative guidance of the Department of Foreign Affairs and/or the Department of Trade and Industry, with foreign entities or enterprises.

1.3 How and why have the three proposed locations for IC -- Tuguegarao, Cagayan de Oro - Iligan Corridor, Tacloban selected? Has the selection been authorized (if yes, how?) or is it still on the drawing board?

ANSWER: To ensure the viability and geographic dispersal of ecozones through a system of prioritization, Section 5 [c], [d] and [n] of RA 7916 has initially identified the City of Cagayan de Oro in the Province of Misamis Oriental, the City of Iligan in the province of Lanao del Norte and so much of the City of Tacloban as may be necessary, respectively, as areas initially identified for the establishment of ecozones subject to their fulfillment/satisfaction of following criteria:

a. it must be identified as a regional growth center in the Medium-Term Philippine Development Plan or by the Regional Development Council;

b. the existence of required infrastructure in the proposed ecozone such as roads, railways, telephones, ports, airports, etc., and the suitability and capacity of the proposed site to absorb such improvements;

c. availability of water source and electric power supply for use of the ecozone;

d. the extent of vacant lands available for industrial and commercial development and future expansion of the ecozone as well as lands adajcent to the ecozone available for development of residential areas for ecozone workers;

e. the availability of skilled, semi-skilled and non-skilled trainable labor force in and around the ecozone;

f. the area must have a significant incremental advantage over the existing economic zones and its potential profitability can be established;

g. the area must be strategically located; and,

h. the area must be situated where controls can easily be established to curtail smuggling activities.

2. INDUSTRIAL COMMUNITIES

2.1 **Please describe your idea of IC in the three proposed locations. In this regard, we would like to refer to the statement made by a Filipino official at the meeting between DTI/BOI and the JICA mission headed by Mr. Maruse on October 19, last year (hereafter referred to as the Oct. 19 meeting). She said that an initial study of IC had been made by BOI. We would certainly like to get a copy of this report with a detailed explanation of the BOI official in charge of this study. More particularly, we are interested in hearing about the following:**

a. **What kind of industries do you expect to be located in the industrial estate (IE) in the ICs in question? Local resource based, export-oriented**

processing, local market oriented, or others? Foreign investment or domestic companies?

b. **What will be the likely size of the IE?**

c. **What other components of IC do you have in mind? settlements (for foreign or local executives or for workers?), service facilities (please give some details), etc.**

ANSWER: To date, the Philippine Economic Zone Authority has been in receipt of only three sets of profiles of proposed sites for ecozone development for Cagayan de Oro City (2 areas) and Tacloban City (1 area). Following are the data that can so far be gleaned from these submissions:

Cagayan de Oro City:

Industries Expected to Locate within the Ecozone: small to large industries, labor intensive, non-pollutive, export and locally-oriented industries

Area 1	: Bonbon, Kauswagan, Bayabas, Bula
Zoning Classification	: Residential
Available Area	: 700 has.
Topography	: flat
Communications	: available
Seaport	: 8 km. away
Airport	: 15 km. away
Special Features	: proximity to Cagayan de Oro and Iponan Rivers proximity to Macajalar Bay

Area 2	: Tablon
Zoning Classification	: Industrial and Commercial
Available Area	: 350 has.
Topography	: flat
Roads	: concreted
Communications	: available
Seaport	: 10 kms. Away
Airport	: 15 km. away
Special Features	: proximity to Umalag and Cugman Rivers proximity to Macajalar Bay

Tacloban City:

Industries Expected to Locate within the Ecozone: tourism industries

Specific Location	: New Kawayan, Old Kawayan, Suhi, Tagpuro, Sto. Nino, Tacloban City
Zoning Classification	: Industrial
Available Area	: 236.9 has.
Topography	: slightly undulating
Roads	: asphalted
Communications	: available
Seaport	: 11 km. away
Airport	: 20 km. away
Special Features	: along the national road proximity to the sea

Iligan City:

Industries Expected to Locate within the Ecozone: large and heavy industries, agro-industrial industries and export and locally-oriented industries

Tuguegarao:

Industries Expected to Locate within the Ecozone: export and locally-oriented industries

Based on current policy in no case can an ecozone have an area less than 25 hectares.

Ecozones are selected areas with highly developed or which have the potential to be developed into agro-industrial, industrial, tourist/recreational, commercial, banking, investment and financial centers. An ecozone may contain any or all of the following:

a. industrial estate (IE) - This refers to a tract of land subdivided and developed according to a comprehensive plan under a unified continuous management and with provisions for basic infrastructure and utilities, with or without pre built standard factory buildings and community facilities for the use of the community of industries.

b. export processing zone (EPZ) - This is a specialized industrial estate located physically and/or administratively outside customs territory, predominantly oriented to export production. Enterprises located in export processing zones are allowed to import capital equipment and raw materials free from duties, taxes and other import restrictions.

c. free trade zone (FTZ) - This is an isolated, policed area adjacent to a port of entry (as a seaport) and/or airport where imported goods may be unloaded for immediate transshipment or stored, repacked, sorted, mixed or otherwise

manipulated without being subject to import duties. However, movement of these imported goods from the free-trade area to a non-free-trade area in the country shall be subject to import duties.

Ecozone developers may likewise set aside certain portions of their designated territories for housing, administration, recreation, greens and common-service purposes.

2.2 **We have heard of some IEs existing and planned in and around the proposed ICs, such as Phividec IE and Cagayan de Oro IE and the Leyte Industrial Development Estate. Please give particulars such as the year sale of the area started, area of site, area still available for sale, area already sold, cost of areas for sale/lease, industrial estate/free trade area's operating body, data about operating enterprises (name, nationality, type of industry, no. of labor, year operation started, etc.)**

ANSWER:

(In Hectares)

Name of IE	Land Area	Developed	Occupied	Available Area	Selling Rate
Cagayan de Oro IE	11.278	7.917	7.917	3.361	P500/sq m
Phividec IE	3000.000		247.000	1200.000	P15/sq m (under study)
LIDE	424.695	424.695	227.520	197.175	

NOTE: Data on Cagayan de Oro IE and Phividec IE secured from the handbook on Philippine Industrial Estates as prepared by the Bonded Export Marketing Board (BEMB) in cooperation with BOI's Investment Marketing Department.

Following are data on firms operating within the Leyte Industrial Development Estate, which IE is under PEZA supervision:

Name of Enterprise	Products	Equity Participation
Lepanto Consolidated Mining Co.	roasting concentrates, copper calcines, crude arsenic trioxide and antimony dust	Filipino/American/British Chinese/Spanish/Others
Philippine Associated Smelting and Refining Corporation (PASAR)	copper cathodes, dore metal and sulfuric acid	Filipino/Japanese/American

NOTE: PEZA is not in possession of updated data on the oporations of the Phividec and Cagayan de Oro IEs.

2.3 **What organization is expected to be the executing agency of each IC component in the implementation stage -- the central or local government, private company, or others? Where do you expect the necessary fund from? And who will be responsible for the coordination of all these?**

ANSWER: Data on the operations of ecozones in these areas will only become available upon PEZA's receipt of their formal applications.

2.4 **Please let us know who owns the land where ICs will be built; whether there will be any difficulty foreseeable in using the land.**

ANSWER: We are still not in possession of such data.

3. REGIONAL SETTINGS

3.1 **Please describe the area around the proposed IC with supporting statistics; population, labor, living standard, main economic activities, major cities, etc.**

ANSWER: We are currently not in possession of such data.

3.2 **Please provide us with detailed information of the existing and planned infrastructure facilities – transportation, telecommunication, electricity and water supply, education and training, government services, etc., in and around the proposed ICs; e.g. the depth of water, quality and quantity of wharf facilities, etc. of sea ports.**

ANSWER: We are not yet in possession of such data.

3.3 **Please provide statistics of the nearby sea/airports in recent years; frequency and origin/destination of regular shipping/air services, quantity of passengers and cargo handled, etc.**

ANSWER: We are not in possession of such data.

3.4 **Please give information on tourist attractions, if any, in the vicinity of the IC with supporting data such as number of tourist facilities, number of foreign and local visitors, etc.**

ANSWER: We are not in possession of such data.

3.5 **One Filipino official mentioned in the Oct. 19 meeting that there are arising environmental problems in the CALABARZON area because of**

4.4 Please provide us the details of the integrated regional development plan for the North-WEST Luzon Quadrangel. If there exists such plan formulated for other 2 regions under our study, please let us have their details.

ANSWER: We are not in a position to provide such information.

Cagayan de Oro
DTI Region 10より入手

JICA PROJECT PREPARATION STUDY MISSION

DATA REQUIREMENTS

1.The CAG AYAN DE ORO-ILIGAN CORRIDOR (CIC) is one of the priority growth networks identified in the Philippine Medium Term Development Plan. It is a project of the government and private sectors and was formally recognized by President Fidel V. Ramos through Executive Order No. 85.

2.EXISTING and PLANNED INDUSTRIAL ESTATES within the CIC

EXISTING and OPERATIONAL:

PHIVIDEC Industrial Estate - Misamis Oriental (PIE-MO)

Location : Towns of Tagoloan and Villanueva , Misamis Oriental
kilometers from Cagayan de Oro City

Industrial Area: 2,011 hectares
Occupied : 277.96 hectares
Available : 1,733.04 hectares

Lease Rate : P15.00 per square meter per annum

No. of Locators: 53
Manufacturing: 27
Service : 26

Type of Industries: get from Bambie updated list, enumerate

Nationality : Filipino, Japanese, Swiss, etc.

Employment Generated: 3,625

Alwana Business Park

Location : Cugman, Cagayan de Oro City
kilometers from Cagayan de Oro City

Area : 75 hectares

Land Rates :
Lease Rate : P20.00 per square meter per month + 10% VAT
Selling Price : P2,500.00 per square meter

Standard Factory Building Rates:
Lease Rate : P42.00 per square meter per month + 10% VAT
Selling Price : P7,800.00 per square meter

No. of Locators: 4
Manufacturing: 4

Type of Industries: Wood-based

Nationality : Filipino, British

PROPOSED:

Metro Iligan Regional Agri-Industrial Center (MIRAIC)
Location : Linamon, Iligan City
kilometers from Iligan City Proper

Area :
Available : 344 hectares, 29 hectares of which will constitute an Export Processing Zone (EPZ)

Lease Rate : P6.50 per square meter

Target No. of Locators : 588

Investment Opportunities : - Downstream Steel Industries
- Chemicals
- Electronics
- Plastics and Packaging
- Food Manufacturing
- Allied Industries

Light Industrial Park of Ayala Corporation
Location : Laguindingan, Misamis Oriental
kilometers from Cagayan de Oro City

Area :
Available : 602 hectares

Investment Opportunities : Export-oriented Light Industries

Target Date of Operation : Construction to begin at the same time as the adjacent CIC International Airport

El Salvador Industrial Estate
Location : El Salvador, Misamis Oriental
kilometers from Cagayan de Oro City
Area :
Available : 150 hectares

Investment Opportunities : Agri-based Light Industries

Claveria Industrial Estate
Location : Claveria, Misamis Oriental
kilometers from Cagayan de Oro City
Area :
Available : 1,000 hectares

Investment Opportunities : Agri-based Light Industries

3. REGIONAL SETTING

3.1Name of Industrial Center:	Cagayan de Oro Iligan Corridor
Land Area:	11,694 square kilometer
Composition:	2 cities- Cagayan de Oro City Iligan City 19 municipalities - 14 in Misamis Oriental 5 in Lanao del Norte Expanded CIC includes Camiguin and Bukidnon Impact Areas: rest of Lanao del Norte, Lanao del Sur and Misamis Occidental
Population :	1.84 Million (expanded CIC)
Main Economic Activities:	Food Processing Cement Manufacturing Construction & Construction Materials Manufacturing Chemicals Manufacturing Metallurgical and Mining Production Energy related Activities

3.2 to 3.3 INFRASTRUCTURE AND UTILITIES

ELECTRICITY/POWER

Existing:
Consumption in 1994 of Misamis Oriental & Lanao del Norte: 3,304,259 kwh
Mindanao Grid Total, 1994: 8,749,192 kwh

Planned: (Government projects for Region X)
Distribution lines installation, 1996: 334 km
1997: 334 km
1998: 334 km
Rural Electrification, no. of barangays, 1996:13
1997:13
1998:13
Energy Sales, 1996: 1.804 mw
1997: 2.029 mw
1998: 2.252 mw

TELEPHONE SYSTEM

Existing

Subscriber of land-based digital as of June 1995: 41,000(Misamis Oriental & Lanao del Norte)

Subscriber of cellular telephone : 10,000(Misamis Oriental & Lanao del Norte)

Planned

MISORTEL-Samsung,1996: 8,450 lines (Cagayan de Oro-El Salvador)
Cellular Mobile, expected additional in 1995: 22,000 lines(Cagayan de Oro)
Cellular Mobile,expected additional in 1995: 700 lines (Iligan City)
MATELCO-Lanao del Norte,1995-1998: 2,000 lines

TRANSPORTATION

Land

Existing Roads

Paved: 182 km, includes 85 km of primary concreted highway (Misamis Oriental and Lanao del Norte)

Unpaved: 881 km (Misamis Oriental & Lanao del Norte)

Planned Projects :(Region X)

Roads Upgrading, 1996: 232 km
1997: 232 km
1998: 232 km

Major Projects:
Bukidnon-Davao Road
Iligan-Bukidnon Road

Registered land transport facilities in 1994 : 26,865 (Misamis Oriental)
2,241(Lanao del Norte)

Sea:

Passengers: (Cagayan de Oro Seaport)
Disembarked, 1994: 576,695
Embarked,1994 : 558,374

Cargo:(Cagayan de Oro Seaport)
Foreign, 1994 : 0.261 MT
Domestic, 1994 : 0.670 MT

Containerized Cargo Handled: (Cagayan de oro City)
1994, in MT : 1,136,326

in TEU's: 98,668

Vessel Calls: (Cagayan de Oro City)
1994 : 2,714

Description of existing Cagayan de Oro City and Iligan City Seaports:

	Cagayan de Oro		Iligan
	Phase I	Phase II	
Total Port Area	71,400 sq. m	115,600 sq.m	51,786 sq.m
Quay length	512 m	416 m	
Controlling Draft	8.5 m	10.5 m	5.4 m
Open Storage Area	15,232 sq.m	31,460 sq.m.	17,709 sq.m.
Passenger Shed	530 sq.m		32 sq.m
No. of port operators	2		1

Anchorage: 60 fathoms depth about 40 m from the shore

Cagayan de Oro Seaport Planned Projects:

Type	Project Cost
1. Port Expansion	P500 M
2. Construction of Bulk Grains Handling Facilities	364
3. Construction of New Integrated Passenger	35.4
4. Construction of Vehicle Holding Area	2.4
5. Vessel traffic System	127
6. Construction of Bulk Fertilizer Terminal	150 M

Air

Existing Airports: Trunkline in Cagayan de Oro City
Secondary in Iligan City

Passengers:
Outbound, 1994: 173,665
Inbound, 1994 168,439

Existing Flight Facilities:

Flight Carrier	Type
1. Phil. Airlines	B-737-400 Passenger (121) Cargo
2. Aboitiz Air Transport System	YS-11 (all cargo) Payload:5.8-6.2
3. Pacific Airways Corp.	Charter & Commuter flights Cargo

Planned(will be operational within this year):

1. Grand Air	B-737-200 Passenger (120)
2. Cebu Pacific Air	DC-9 Series Passenger (163) Cargo
3. Air Philippines	B-737-200 Passenger(107/125)

Planned Airport Infrastructure Project:

Construction of an International Standard Airport in Laguindingan, Misamis Oriental

WATER SUPPLY

Existing
Total Production Capacity in 1993: 65,208 cubic meter per day (in Cagayan de Oro City)

Planned
Water supply construction, Region X, 1996: 282 units
1997: 282 units
1998: 282 units

Cagayan de Oro Water District Projects:
>Balulang, Calaanan, Mandumol Projects - P40 M
Scope of work: well development
installation of pumping equipment
provision of stand-by facilities
installation of pipelines
provision of electro-mechanical & support facilities

>Other crash projects - P20.5 M
>3rd phase expansion program - P78.36 M

EDUCATION AND TRAINING

No. of University - 1 (in Cagayan de Oro City)
No. of Colleges - 30 (Cagayan de Oro City & Iligan City)
No. of State Colleges- 2 (in Cagayan de Oro & Iligan City)

GOVERNMENT SERVICES

Available frontlines on investment/business servicing:

One Stop Investment Action Center
One Stop Export Documentation Center
Customs Bonded Warehousing
Cargo Bulk Handling

3.4 TOURISM

No. of Tourists , 1995:	Misamis Or & Cagayan de Oro	Region X
Foreign:	2,708	4,003
Local:	69,686	89,746

Tourist accomodation facilities in Cagayan de Oro City:

Hotels :	11
Pension houses/inns:	17
Travel agencies	15
Rent a car companies	6

Points of Tourist Attraction:

Camiguin Island
Maria Cristina Falls
Tinago Falls
18-hole Del Monte Golf Course
Beaches/parks/falls/springs

3.5 There has never been serious problem on environmental management in the Cagayan de Oro-Iligan Corridor.

3.6 Environmental Projects in the Cagayan de Oro-Iligan Corridor:

A comprehensive Environmental and Pollution Management Program has been formulated and action plan has been drawn up.

The Programmatic Environmental Compliance Certificate (ECC) will be pilotted in the PHIVIDEC Industrial Estate. The Programmatic ECC will serve to fast track the process of securing ECC for locator firms.

4. Outline of the BIMP-EAGA Cooperation Programs

The BIMP-EAGA brings together West and East Kalimantan and North Sulawesi in Indonesia, Mindanao and Palawan in the Philippines, Sabah and Sarawak in Malaysia, and Brunei Darussalam. It seeks to fully exploit the complementariness through partnership between the private sector and the government. There are thirteen (13) sectors in the BIMP-EAGA, one of which is the Construction and Construction Materials Sector wherein the Philippines is the lead country. Already efforts are being exerted by member countries to promote joint venture arrangements in this sector through investment missions and business fora.

Cooperative ventures in the areas of tourism development, expansion of air linkages, sea transport and shipping services and fisheries development have been initiated.

Gross Domestic Product

By Sector, 1994
In Thousand Pesos

CAGAYAN-ILIGAN CORRIDOR

SUBSECTOR	1994
1. Agriculture/Fishery/Forestry	7,440,433.09
2. Industry Sector	17,361,010.54
3. Service Sector	24,801,443.63
GROSS DOMESTIC PRODUCT	**49,602,887.25**
CIC vs. Mindanao	**54.56**
CIC vs. Philippines	**6.48%**

Source of Basic Data : National Statistics and Coordination Board

MAJOR EXPORTS
Cagayan de Oro - Iligan Corridor
1995
FOB Value in US Dollars

COMMODITY	VALUE	% SHARE
1. Crude Coco Oil	125,284,666	35
2. Iron Ore Agglomerates	55,047,436	15
3. Canned Pineapples	24,855,916	7
4. Refined Coco Oil	23,791,540	7
5. Oil Cake & Other Residues	18,557,338	5
6. Ferrochrome	11,011,360	3
7. Industrial Fatty Alcohol	9,757,926	3
8. Mixtures of Fruits	9,235,182	3
9. Pineapple Juice Concentrates	7,610,410	2
10. Builder's Woodworks	7,313,264	2

Source : National Statistics Office

JICA MISSION
ON DEVELOPMENT OF INDUSTRIAL COMMUNITIES

INDEX ON DATA/STATISTICS REQUIREMENTS

MAJOR ECONOMIC INDICATORS

MAJOR EXPORTS
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10. Builder's Woodworks	7,313,264	2

Source : National Statistics Office

MAJOR EXPORT MARKETS
CIC Exports
1995

Country of Destination	% Share
1. U.S.A.	24.05
2. Europe	22.97
3. Japan	17.06
4. Korea	6.98
5. Malaysia	6.65
6. Taiwan	6.01
7. Hongkong	3.87
8. Singapore	3.26
9. China	2.56
10. Indonesia	2.22

Gross Domestic Product

By Sector, 1994
In Thousand Pesos

CAGAYAN-ILIGAN CORRIDOR

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CIC vs. Mindanao	**54.56**
CIC vs. Philippines	**6.48%**

Source of Basic Data : National Statistics and Coordination Board

EQUITY INVESTMENTS
Cagayan-Iligan Corridor

SOURCE	% SHARE
Japan	74
Malaysia	37
USA	10
Canada	9
Switzerland	4
Germany	3

Gross Domestic Product

By Sector, 1994
In Thousand Pesos

CAGAYAN-ILIGAN CORRIDOR

SUBSECTOR	1994
1. Agriculture/Fishery/Forestry	7,440,433.09
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INFRASTRUCTURE & UTILITIES

D. INFRASTRUCTURE AND UTILITIES

SUMMARY OF INFRASTRUCTURE PLAN TARGETS
CY 1996-1998

SUBSECTOR/ INDICATOR	UNITS OF MEASURE	1995	1996	1997	1998
Transportation					
Roads Upgrading	kilometers	232	232	232	232
Airports Improvement	number of projects	1	2	1	1
Seaports Improvement	number of projects	2	2	1	1
Water Resources					
Water Supply construction	number of units	282	282	282	282
Water Supply service coverage	% of total Hhs	92.0	93.0	94.0	95.0
Newly-irrigated areas	hectares	2,762	1,790	1,930	3,940
Area rehabilitated	hectares	1,032	1,940	1,690	3,910
Level of irrigation development	% of potential area	43.0	45.0	47.0	51.0
Flood Control/drainage construction	no. of projects	-	1	1	1
Power/Electrification					
Peak demand	kilowatts	233,200	256,520	282,150	310,360
Energy sales	megawatt-hours	1.554 M	1.804 M	2.029M	2.252 M
Rural electrification	no. of Barangays and	13	13	13	13
	no. of HH connections	30,000	30,000	30,000	30,000
Distribution lines installation	kilometers	334	334	334	334
Telecommunications					
Public Calling Office Installation	no. of PCOs	10	20	16	
Telephone lines installation	no. of lines	6,624	9,231	12,861	17,920
Telephone density	lines/100 pop.	1.0	1.5	2.0	2.4
Post Office buildings const./rehab.	no. of projects	4	4	4	4

(Region X)

LIST OF MAJOR PROGRAMS AND PROJECTS FOR CAPITAL ASSISTANCE
(1996-1998)

PROGRAM/PROJECT TITLE AND LOCATION	PROJECT DESCRIPTION	INVESTMENT REQUIREMENT (P000)					FUNDING SOURCE	STATUS REMARKS
		1996	1997	1998	Later Years	TOTAL		
1. CIC (Laguindingan) Airport Project Laguindingan, Mis. Oriental	167 has. total, 88.44 has. already donated by Ayala Corp. and balance budgeted by DOTC for land acquisition in 1996.	45,135 45,135	306,917 126,378 180,539	324,971 99,297 225,674	225,674 (0) 225,674	902,697 270,809 631,888	TOTAL GOP EDCF	Loan application for Economic Development Cooperation Fund (EDCF) submitted by NEDA PIS on behalf of DOTC to the Republic of Korea Embassy last Aug. 2, 1995. DOTC adjusted cost to reflect 1995 prices per request of Korean Embassy
1.1 CIC Airport Access Road Laguindingan, Misamis Oriental	13 kms. 7.3 meter-wide asphalt road including drainage system and 15 meters road right-of-way	85,410	note: yearly programming not yet available			85,410	IBRD/ DPWH	To be proposed by Misamis Oriental for funding under the WB-funded PREMIUMED II program w/supplemental funding from the DPWH/RBAS and/or Rep. V. Chaves' CDF.
1.2 CFR Equipment for CIC Airport, Laguindingan, Misamis Oriental and common fire protection unit for the towns of Opol, El Salvador and Alubijid as well.	1.2.1 Rapid Intervention Vehicle 1.2.2 Major Vehicle(MV)		7,500 15,500			7,500 15,500	DILG-BFP (ODA)	To be proposed by DILG-BFP as common corridor fire protection unit for the urbanizing/industrial CIC municipalities of Opol, El Salvador, Alubijid and Laguindingan, Misamis Oriental under ATO jurisdiction. per MOU/ACRO with concerned LGUs.

(Region X)

LIST OF MAJOR PROGRAMS AND PROJECTS FOR CAPITAL ASSISTANCE
(1996-1998)

PROGRAM/PROJECT TITLE AND LOCATION	PROJECT DESCRIPTION	INVESTMENT REQUIREMENT (P000)					FUNDING SOURCE	STATUS REMARKS
		1996	1997	1998	Later Years	TOTAL		
1.3 Air Navigation Facilities CIC (Laguindingan) Airport Laguindingan, Misamis Oriental	1.3 ILS for East approach of Laguindingan runway , lighted windcone and airfield lighting system (runway, threshold, taxiway, and approach lights and PAPI (purchase/install)		1,200	5,000	13,000	19,200	DOTC/ODA USAID/ESF II	Costings represent the net additions to the original 1992 LBII cost estimates for same excluding ILS. Since these facilities are transferrable, same can already be programmed under DOTC's regular investment programming for Cag. de Oro (Lumbia) airport.
1.4 CIC Airport Project Relocation Site Laguindingan, Misamis Oriental	1.4 Development costs for relocation site for airport site beneficiaries of NHA Resettlement Program (RAP) for LGUs Laguindingan, Misamis Oriental	6,000				6,000	NHA GAA	Land to be acquired by LGU of Laguindingan to be developed by NHA under its Resettlement Assistance Program (RAP) for LGUs
1.5 Relocation assistance for displaced households to be affected by the land acquisition for the airport site and access road	Compensation for displaced households who choose not to resettle in relocation site	6,000				6,000	DOTC/ DPWH	Preliminary estimate based on estimated total HH less no. of HH listed in LGU baseline survey conducted 9/9/93. For programming under the DPWH & DOTC RBAS with add'l. funds from Rep. V. Chaves' CDF.

(Region X)

LIST OF MAJOR PROGRAMS AND PROJECTS FOR CAPITAL ASSISTANCE
(1996-1998)

PROGRAM/PROJECT TITLE AND LOCATION	PROJECT DESCRIPTION	INVESTMENT REQUIREMENT (P000)					FUNDING SOURCE	STATUS REMARKS
		1996	1997	1998	Later Years	TOTAL		
1.6 Bukidnon-Davao Road (North-South Backbone)	Road improvement: asphalting of 60-km. highway (Bukidnon side)	100,000	180,000	40,000		320,000	IBRD HML DPWH	
	Road improvement: asphalting of 60-km highway (Davao side).	400,000					IBRD HML DPWH	Targeted Project Completion: 11/09/96.
1.7 Misamis Oriental-Lanao del Norte Road including various bridges:								
a. Tagoloan Bridge	Bridge rehabilitation of 950.0 LM concrete bridge.		20,000	85,000	85,000	190,000	GOP/DPWH	
b. Third bridge across Cagayan de Oro River and access road:	Construction of 450.0 LM concrete bridge and 9.55 km. access road.		125,000	125,000		250,000	ODA/DPWH	Proposal submitted to MEDCo.
c. Cagayan de Oro elevated highway (Lapasan-Marcos bridge)	Construction of tow-lane concrete elevated highway of 2.40 km.		100,000	100,000	300,000	500,000	ODA/DPWH	Proposal submitted to MEDCo.
d. Panguil Bay bridge, Tubod Lanao del Norte and Tangub City	Construction of 800.0 LM bridge & 1.0 km. causeway approaches.		100,000	100,000	100,000	300,000	ODA/DPWH	

(Region X)

LIST OF MAJOR PROGRAMS AND PROJECTS FOR CAPITAL ASSISTANCE
(1996-1998)

PROGRAM/PROJECT TITLE AND LOCATION	PROJECT DESCRIPTION	INVESTMENT REQUIREMENT (P000)					FUNDING SOURCE	STATUS REMARKS
		1996	1997	1998	Later Years	TOTAL		
1.8 Lanao del Norte-Lanao del Sur -Bukidnon-Agusan del Sur-Surigao-Bukidnon side.								
a. Maramag-Wao section	Improvement/Paving of 80.3 km. road.	87,683	80,000	100,000	516.952	784,635	ODA/DPWH	
b. Bukidnon-Iligan Road	Improvement/paving of 82.0 km. road (Bukidnon side).	20,000	150,000	150,000	336.000	656.000	GOP/DPWH	
	Widening and concrete paving (Iligan side).					432.000	DPWH/CDF	Detailed surveys for first 30 kms. completed. Remaining 42 kms. on-going. Concreting of Sta. Filomena portion completed thru CDF of Rep. Badelles. Opening of proposed road from Barangay Rogongon to Tikalaan boundary to be started in 1996 from DPWH regular infra fund.
1.9 Villanueva-Claveria-Gingoog Road.	Concreting 66.436 km. road	8,347	41,017	38,263	310.989	378.616	GOP/DPWH	
2.0 Manolo Fortich-Libona-Cagayan de Oro road	Improvement/paving existing bad gravel road 950.592 km.	8,000	16,248	22,192	257.112	303.552	ODA/DPWH	

(Region X)

LIST OF MAJOR PROGRAMS AND PROJECTS FOR CAPITAL ASSISTANCE
(1996-1998)

PROGRAM/PROJECT TITLE AND LOCATION	PROJECT DESCRIPTION	INVESTMENT REQUIREMENT (P000)					FUNDING SOURCE	STATUS REMARKS
		1996	1997	1998	Later Years	TOTAL		
2.1 Misamis Oriental Bukidnon road, Tagoloan-Maitbog section.	Improvement of 39.277 km.		50,000	80,000	140,000	270,000	ODA/DPWH	
2.2 Cagayan de Oro-Talakag Road Project.	Improvement of 62.1396 km. road.		50,000	80,000	292,550	422,550	ODA/DPWH	
2.3 Tagoloan River Basin Development Project	Construction of flood control structure.	35,000	70,245	94,391	317,040	516,676	GOP/DPWH	Implementation suspended due to on-going negotiations for add'l. funding and expanded coverage of project site.
2.4 Cagayan de Oro River Flood Control	Construction of Flood control structure.		49,014	49,132	161,689	259,844	GOP/DPWH	Funds available at DPWH regional office. POW preparation on-going
2.5 Cagayan de Oro Port Expansion (Phase III)	Improvement and expansion.					1,544,100	ODA/BOT/ Joint Venture with PPA	Improvements (1996) Expansion (short term:1996-2005) Expansion (Long term:2011-2020)
2.6 Mindanao Railway System	Construction of a railway system connecting the major cities in Mindanao.					460,400,000	ODA/GOP/ BOT	Pre-feasibility study already conducted. For BOT implementation.
2.7 Malasag Eco-Village Cagayan de Oro City	Construction of a themepark of tribal houses, botanical garden, aviary, learning center, campground ethnic museum and other facilities of various interests to tourists.	4,000				4,000	GAA	Phase I already completed; Phase II for implementation; investment requirement is for Phase III.
2.8 Initao National Park Initao, Misamis Oriental	Park development for recreation & environmental preservation.	1,500				1,500	GAA	

LIST OF MAJOR PROGRAMS AND PROJECTS FOR CAPITAL ASSISTANCE
(1996-1998)

PROGRAM/PROJECT TITLE AND LOCATION	PROJECT DESCRIPTION	INVESTMENT REQUIREMENT (P000)					FUNDING SOURCE	STATUS REMARKS
		1996	1997	1998	Later Years	TOTAL		
1. Lanao del Norte-Lanao del Sur-Bukidnon-Agusan del Sur-Surigao-Bukidnon side.								
a. Maramag-Wao section	Improvement/Paving of 80.3 km. road.	87,683	80,000	100,000	516,952	784,635	ODA/DPWH	
b. Bukidnon-Iligan Road	Improvement/paving of 82.0 km. road (Bukidnon side).	20,000	150,000	150,000	336,000	656,000	GOP/DPWH	
	Widening and concrete paving of existing roads (Sta. Filomena-Rongongon. Opening of proposed road from Barangay Rogongon to Tikalaan boundary to be started in 1996 from DPWH regular infra fund.					432,000	DPWH/CDF	Detailed surveys for first 30 kms. completed. Remaining 42 kms. on-going. Concreting of Sta. Filomena portion completed thru CDF of Rep. Badelles.

LIST OF MAJOR PROGRAMS AND PROJECTS FOR CAPITAL ASSISTANCE
(1996-1998)

PROGRAM/PROJECT TITLE AND LOCATION	PROJECT DESCRIPTION	INVESTMENT REQUIREMENT (P000)					FUNDING SOURCE	STATUS REMARKS
		1996	1997	1998	Later Years	TOTAL		
2. Maramag-Kibawe-Kabacan Road Project Damulog-Omonay Section	Upgrading of 60 km. gravel road to ACP, 47 km. and gravel resurfacing of 13 km.	80,000	97,757	86,574		264,331	IBRD-HML	
3. Mindanao Railway System	Construction of a railway system connecting the major cities in Mindanao.					460,400,000	ODA/GOP/ BOT	
4. Iligan City Port Improvement and Expansion.	Port improvement/repair and maintenance.					1,183,200	ODA/BOT/ Joint Venture	Pre-feasibility study already conducted. For BOT implementation.
5. Cotabato-Pagadian-Zamboanga Road Project a) Karomatan-Tukuran Sect. b) Butadon-Dobliston Sect. c) Malabang-Karomatan Sect.						503,070	(ODA) ADB	For BOT or joint venture with PPA Improvement (1995-2001) Expansion (2006-2014) Detailed engineering completed. Loan negotiation (1995-1997)
6. A39 Marawi-Cotabato Highway Project (Marawi side) a) Calanogas-Malabang Sect. b) Madamba-Ganasi Sect.	Road construction, improvement.					66,000	DPWH/ODA	
7. Access Road to MIRAIC	Road construction.	7,500				7,500	DPWH	
8. Coastal Resource Management of Iligan Bay	Management of Coastal Resources of Iligan Bay thru a bau council and community organizing activities	1,000	1,000	1,000		3,000	DA/GOP/ ODA	Support to GATT.
9. Acquisition and Distribution of Planting Materials for KCCDP	Acquisition and Distribution of Planting Materials for KCCDP	4,875	4,875	4,875		14,625	DA/GOP/ ODA	

Note: Some government implementing agencies still have to furnish the CIC PMO their CIC-related programs/projects proposed for CA/TA.

LIST OF MAJOR PROGRAMS AND PROJECTS FOR TECHNICAL ASSISTANCE
(1996-1998)

PROGRAM/PROJECT TITLE AND LOCATION	PROJECT DESCRIPTION	INVESTMENT REQUIREMENT ('000) 1996	1997	1998	FUNDING SOURCE	STATUS REMARKS
ECONOMIC SECTOR						
1. Integrated Upland Agricultural Development Program Claveria, Mis. Oriental Maigo, Linamon, Kolambugan, Bacolod Kaurswagan in Lanao del Norte	This project will formulate an integrated approach to profitable upland farming development. This will include a feasibility study of integrated upland development and the actual implementation phase. It will also involve farmers in Claveria and Lanao Norte having an average farm size of 2.5 hectare. *FS (Feasibility Study)* *TC (Technical Consultant)* *PC (Project Component)* *Tot (Total)*	TC $240 PC $435.820 Tot $675.820			JICA-OECF, USAID CIDA, WB, ADB	For inclusion in the MTADP. Potential for improving rural productivity and income. *(Sanyu Consultants interested to undertake this program under the auspices of Japan Min. of Agriculture & Forestry but pilot area would only be in Claveria municipality)*
2. Community-Based Gram Processing and Storage Program a) Multiple crop drying facilities b) Storage facilities c) Credit	The project will initially provide complete drying and storage facilities in 4 different locations in Claveria, and another 2 in Lanao del Norte	TC $45 PC $203.757 Tot $248.757			JICA, USAID, CIDA, WB, ADB	For inclusion in the MTADP. Recommended on a pilot basis. Now being implemented by DA as part of GPEP. *Sanyu Consultants (Japan) interested to undertake program. & assist in fund sourcing.*

(Region X)

LIST OF MAJOR PROGRAMS AND PROJECTS FOR TECHNICAL ASSISTANCE
(1996-1998)

PROGRAM/PROJECT TITLE AND LOCATION	PROJECT DESCRIPTION	INVESTMENT REQUIREMENT ('000) 1996	1997	1998	FUNDING SOURCE	STATUS REMARKS
3. Farm Pond Irrigation Project Claveria, Mis. Oriental and Lanao del Norte	The project includes site selection, design and construction of impoundment ponds and canal networks, and training of beneficiaries in the operation and maintenance of water systems, as well as in cultivation of fish in ponds.	9,490			JICA, USAID, CIDA, WB, ADB	For inclusion to MTADP. Now being implemented by DA & NIA as part of their SWIP PROGRAM. *(Sanyu Consultants interested to undertake this program under the auspices of Japan Min. of Agriculture & Forestry but pilot area would only be in Claveria municipality)*
4. Integrated & Improved utilization of coconut lands study and demonstration Project Corridor-wide	Project consists of 3 major components: Crop intensification and diversification, beef cattle production, coconut production enhancement. the study will identify financially and technically viable options for coconut farmers.	FS $5,197.500 TC $22,522.500 PC $10,351.100 Tot $38,071.100			JICA, USAID, CIDA, WB, ADB	For inclusion in the MTADP. This project should be a high priority concern in line w/ findings of AIMCON's study on downstream, light/medium industries for CIC w/c recommends improving productivity of coco-planted areas for the requirements of the oleochemical industry w/c is recommended for enhancement in CIC.
5. Meat Processing Plant Claveria, Cag de Oro, Middle Corridor	Project aims to establish an integrated meat processing facility to augment existing capacity within the area	10,114			JICA, private ent., BOT	Similar projects being undertaken by Purefoods Corp., Swift Foods Corp., & Vitarich Corp.
6. Integrated Fruit and Vegetable Processing Plant Mid-Corridor, Cag. de Oro	This project will introduce an integrated common service facility which will process the fruits and vegetables produced in Misamis Oriental into bottled juice, purees, and preserves for both local and export markets.	20,000			JICA, USAid, BOT	Parallel projects now being undertaken by De Oro Tropical Fruit, and a new project proposal from California Sun Tropics, Inc. Highly encouraged since CIC is now one of the higher mango producing areas in Mindanao.

LIST OF MAJOR PROGRAMS AND PROJECTS FOR TECHNICAL ASSISTANCE
(1996-1998)

PROGRAM/PROJECT TITLE AND LOCATION	PROJECT DESCRIPTION	INVESTMENT REQUIREMENT ('000) 1996	1997	1998	FUNDING SOURCE	STATUS REMARKS
7. Feedmill Plant Project Cag. de Oro or Iligan	Project seeks to establish a feed mill in order to utilize indigenous farm products like cassava, corn, soybean, fish meal, copra meal, rice bran, ipil-ipil leaf meal, limestone, and molasses as raw materials for inputs in the formulation of feeds for cattle bogs, poultry and prawn in the area as well as for other external markets	8,086 17,000			JICA, USAID, AUSAid, BOT LBP	Vitarich corp. now undertaking expansion of its Feedmill plant at Tablon, CDO while facility of ILIPCO at Bahalang is being leased by San Miguel Feeds. Also propsed for Don Carlos, Bukidnon by Muleta Primary Integrated Agricultural Multpurpose Cooperative (MPIAMC) with financing from LBP and TA from DOST-X
8. Cold Storage Facility Project (Slaughterhouse FS already done) Iligan, Cag. de Oro or Mid-Corridor	Project aims to provide a storage facility for slaughtered animals (carcasses) in Cag. de Oro & Iligan and fish secured from different fish landing sites in Mis. Or. & Lanao del Norte	16,900			ODA, BOT\LGU	B&W & JICA Ice plants recently undertook similar projects in Cag. de Oro. Planned joint venture between Aremay Agri-Service Enterprise and K-enterprises of the US at Villanueva, Misamis Oriental.
10. Prawn Processing Plant Kolambugan, Laguindingan	Project seeks to establish a prawn processing plant w/in the Corridor w/e will process prawns for the local and export markets.	7,514			BOT, NGO	No proponent todate due to inadequate production. Fully absorbed by Kuruna Corp. & Phil.-Sea Ent.
11. Tourism Development Support Facilities for the Camiguin Island Development Program Camiguin-Cag.de Oro/ Balingoan, Talisayan	Support the tourism dev't. program for Camiguin, capitalizing on its complementary dev't. potential for the Corridor. Project involves conduct of FS on dev't. of tourist service facilities, impv't. of transport facilities, & dev't. of tourism promo plan.	53,924			BOT, ODA, JointVtr.	Pls. refer to DOT report.

(Region X)

LIST OF MAJOR PROGRAMS AND PROJECTS FOR TECHNICAL ASSISTANCE
(1996-1998)

PROGRAM/PROJECT TITLE AND LOCATION	PROJECT DESCRIPTION	INVESTMENT REQUIREMENT ('000) 1996	1997	1998	FUNDING SOURCE	STATUS REMARKS
12. Beach Resort Facilities Development Program Initao, Naawan, Opol, Jasaan, Linamon	Project involves conduct of FS on the dev't. of facilities in existing and potential tourist spots in coastal towns. These include construction of tourist accommodation facilities and basic amenities for a beach resort & the dev't. & implementation of a tourism promo plan.	11,596			BOT, ODA, JointVtr.	Pls. refer to DOT report.
13. Cutflowers Production Development Program Iligan, Claveria	The program has two components: - study the viability of cut flower production in the Corridor - promote increase in current production and supply of cut flowers to meet existing demand.	FS $30 PC $102.238 TC $210.000 Tot. $342.238			ODA, BOT, Jt. Vtr.	MILAMDEC to undertake joint venture with US-based K-Enterprises. Smaller projects already being undertaken by private enterprises/grps. in Mis. Or., Iligan, Bukidnon.
14. Sericulture Program West and Middle CIC	Program would establish a viable and productive livelihood activity for rural households. Project should: - develop non-trad export products and bolster raw silk production; - generate interest in sericulture; - earn & save forex thru silk prods. exportation & import subst'n.; - add to scarce domestic supply of silk yarns; and - lead to dev't. of Phil-made silk prods. for domestic & foreign mkt., supplied by local farmers.	390			JICA, Jt. Vtr., USAid Phil. Textile Research Inst./DOST, LGU	JICA consultant currently assisting in Kalingagan, Villanueva, Mis. Or. (Cocoon production self-financed by farmers)
15. Dairy Cattle Dispersal and Production Project Middle Corridor	The project targets increasing milk and dairy production, saving forex fr. imports, and maximizing utilization of land & forage resources.	4,940			ODA, LGU, DA	Being implemented by the NMFDC with funding from LBP.

(Region X)

LIST OF MAJOR PROGRAMS AND PROJECTS FOR TECHNICAL ASSISTANCE
(1996-1998)

PROGRAM/PROJECT TITLE AND LOCATION	PROJECT DESCRIPTION	INVESTMENT REQUIREMENT (000) 1996	1997	1998	FUNDING SOURCE	STATUS REMARKS
16. Tomato Rationalization Study Claveria, Misamis Oriental a) Conduct of feasibility study b) Establishment of breeding program c) Identifying research in varieties and testing sites d) Exploring processing options	The study program will assess the technical and financial viability of tomato production and examine several options for improving the production environment. This will include the conduct of feasibility study, tomato breeding, organizing farmers and market linkaging.	FS $75 PC $600,500 Tot $675,500			JICA-OECF, USAID, ADB, WB	A RAFC-LEAD grant assisted project had approved two related project as of June 1991 such as: "Tomato Production and marketing"; and "Tomato Production" both in Claveria. For inclusion in MTADP. *(Sanyu Consultants (Japan) interested to undertake program & assist in fund sourcing)*
17. Fisheries Enhancement Program a) Fishpond development project b) Research project c) Marine resources conservation program.	This program will involve Misamis Oriental fishermen within the corridor. The program seeks to enhance the fishery resources of the corridor by promoting regeneration, conservation and sustainability of the coastal reources through the rehabilitation of fishery resources and other forms of interventions.	FS $90 PC $776,800 Tot $866,800			GOP/ODA	*For foreign technical assistance. Similar project studies have been prepared in Mis. Orien like the Macajalar and Gingoog Bays Coastal Resource Management under the Fishery Sector Program.*
18. Small Post-harvest Establishment and Development	The project is designed to increase farmers' income, particularly for Bukidnon and Misamis Oriental by enabling them to keep the rice and corn produce until better marketing periods and reduce post harvest losses.	P115,550			LGU/GOP/ODA	For inclusion in the CIC Investment Program.
19. Philippine Integrated Agriculture Infrastructure and Support Service Project	The project will support the infrastructure development in Claveria and Gingoog City through the construction and upgrading of roads, bridges, community irrigation systems and provision of storage facilities and public market at key interchange points within the target municipalities.	Budget to be determined on specific projects			s. DA/GOP/ODA	For inclusion in the CIC Investment Program.

LIST OF MAJOR PROGRAMS AND PROJECTS FOR TECHNICAL ASSISTANCE
(1996-1998)

PROGRAM/PROJECT TITLE AND LOCATION	PROJECT DESCRIPTION	INVESTMENT REQUIREMENT ('000) 1996	1997	1998	FUNDING SOURCE	STATUS REMARKS
20. Grain-Feedmill-Livestock Production Integration Program a) Technical assistance b) Credit Facility Assistance c) Breeding program d) Post harvest e) Marketing assistance	This is an integrated program to profitable farming development utilizing the under coconut farms in the corridor areas.	35,000			DA/GOP/ODA	For inclusion in the CIC Investment Program.
21. Rootcrop Utilization Program a) Research and Demonstration b) Production c) Technology training d) Post harvest e) Marketing development	The program will identify suitable sweet potato (camote) lineswhich will be utilized and processed into noodles at household level in Claveria.	15,000			DA/DOST	For inclusion in the CIC Investment Program.
INFRASTRUCTURE SECTOR						
1. Centralized Sewage Treatment Plant for CIC (Laguindingan) Airport Laguindingan, Misamis Oriental	The Environmental Compliance Certificate (ECC) for the project specifies the inclusion of a Centralized Sewage Treatment Plant as a condtionality of the ECC.				ODA/GOP	For FS & DE: Either to be packaged as a component of the airport project for EDCF funding or as a separate environmental mitigating measure project.
2. Corridor Farm-To-Market Road Project	Project aims to provide a basic network of important farm-to-market roads over w/c farm prods. and other goods can flow.	126,100			ADB, WB, JICA, LGU DA	Pls. refer to DA-10 report.

(Region X)

LIST OF MAJOR PROGRAMS AND PROJECTS FOR TECHNICAL ASSISTANCE
(1996-1998)

PROGRAM/PROJECT TITLE AND LOCATION	PROJECT DESCRIPTION	INVESTMENT REQUIREMENT ('000)			FUNDING SOURCE	STATUS REMARKS
		1996	1997	1998		
4. Bukidnon To Davao Road	Project would enhance the transport of goods and services between the provinces of Davao & Bukidnon and to other areas of Regions 10 & 11.	1,141,354			WB-IBRD HML	On-going. Pls. refer to DPWH-10 & 11 report.
6. Wastewater and Water Supply Systems for Cag. de Oro	Project is for the design & construction of water supply improvements, consisting of spring dev'ts., water transmission & distb'n. lines, storage tanks & reservoirs, service connections & treatment facilities; and for new wastewater collection, treatment & disposal facilities.	1,415,752			USAID	Currently being undertaken (for Phase I) by DMJM International with funding from USAID.
7. Water Supply Improvement Program for Selected Municipalities in CIC (Piped water, communal/hand pumps)	Objectives of the Program: - improve water supply & sanitation services in communities; - decentralize development w/in the region; and - develop the means for communities, from municipalities down to bgy. levels, to become self-reliant in providing for domestic & comm'l./ ind'l. water needs.	216,528			BOT, AustAid, WB, JICA, ADB USAID	Austa Aid will undertake a pilot study on this project covering initially Misamis Oriental. (to be verified)

LIST OF MAJOR PROGRAMS AND PROJECTS FOR TECHNICAL ASSISTANCE
(1996-1998)

PROGRAMS/PROJECT TITLE AND LOCATION	PROJECT DESCRIPTION	INVESTMENT REQUIREMENT ('000) 1996	1997	1998	FUNDING SOURCE	STATUS REMARKS
9. Iligan to Bukidnon Road	The project roads have been endorsed for construction/improvements by local gov't. officials on both sides to enhance economic activities in the influence area with the provision of better & cheaper access to neighboring key cities & towns in Bukidnon & Lanao del Norte.	597,000			DPWH, CDF (Cong. Baddelles), LGU	Pre-FS completed. Bukidnon-side: repair and improvements of existing roads/bridges ongoing. Iligan-side: eng'g. design & survey ongoing; initial concreting of Sta. Filomena portion completed. *Cree Const. of Canada signifies interest to conduct FS under possible CIDA funding with a proposal to cover the connecting road from Bukidnon to Agusan del Sur.*
		192,244			CIDA, ADB, WB	
10. Claveria Supplemental Irrigation Water Projects	Project aims to identify areas w/c are suitable for increasing agricultural productivity by developing small irrigation systems to supply supplemental irrigation water. It also aims to increases of farmers currently working their land by increasing yields of second &/or third crops w/n the year.				ADB, JICA, WB, USAID	Proposed to be included in JICA study.
11. Mindanao Railway System	Project is envisioned to enhance inter-regional trade & travel, part. the transfer of goods & services.			46,400,000	BOT, Joint Venture	Pre-Feasibility Study completed. Initial results indicate the CIC as the only viable route under Phase I implementation.
13. Cag. de Oro Port expansion and Improvements.	The Three-Phase expansion & improvements will include establishment of a bulk grain & bulk fertilizer terminals and a new passenger terminal complex to accommodate the increasing maritime traffic.			1,544,100	PPA: BOT, Jt. Vtr.	Priority components: - Passenger Terminal Complex - Bulk Grains Terminal - Bulk Fertilizer Terminal

CAGAYAN DE ORO SEAPORT
(15 YEAR DEVELOPMENT PLAN)

YEAR	NAME OF PROJECT	PROJECT COST (in million Pesos)
1996	Extension of Administration Building	10
1997-1999	Port Expansion	500
1996-1998	Construction of Bulk Grains Handling Facilities	364
1996-1997	Construction of New Integrated Passenger Terminal	35.4
1996	Construction of Vehicle Holding Area	2.4
1997	Vessel Traffic System	127
2006-2010	Construction of Bulk Fertilizer Terminal	150

GENERAL INFORMATION
PORT OF CAGAYAN DE ORO
****

Anchorage	60 fathoms depth about 40 meters from the shore
Location	Latitude - 08 32.5 N ; Longitude - 124 40 E
Harbor Pilot Boarding Station (Foreign Vessels)	Latitude - 08 32.5 N; Longitude - 124 40 E
Average Turn-around Time	Domestic Vessel - 34.48 hours Foreign Vessel - 59.021 hours
Draft	Maximum of 13 meters alongside, 80 meters from the northern portion of the quay; 10.5 Meters along the quay side.
Berthing	11 berthing spaces (982 meters quay length)
Pilotage	Compulsory for vessels of 100 Tons or over, with exemption on some domestic vessels for docking or leaving the government wharf or any privately-owned wharf.
VHF	Port radio on Channel 16; Pilots on Channel 16 and 12.
Port Labor Productivity	Conventional: Break Bulk - 21 MT/gang hour Containerized - 17 Box/gang hour Roro : Break Bulk - 86 MT/gang hour Containerized - 46 Box/gang hour
Fuel	Vessels are required to apply for bunkering at the Philippine Ports Authority. Fuel oil is supplied by the local distributors of Petron, Caltex, Mobil and Shell.
Repairs	Minor Repairs, not to exceed 2 hours, may be allowed for vessels at berth upon approval of PPA. Major repairs have to be done at the anchorage.
Time Zone	GMT - 8 hours

CAGAYAN DE ORO PORT

I. FACILITIES

	PHASE I	PHASE II	TOTAL
A. Total Area	7.10 Has.	11.56 Has.	18.66 Has.
B. Quay Length	567 L. M.	415 L. M.	982 L. M.
C. Draft	8.50 Meters	10.50 Meters	
D. Open Storage Area (Paved)	12,000 Sq. M.	22,206 Sq. M.	34,206 Sq. M.
E. Transit Shed	4,860 Sq. M.	5,000 Sq. M.	9,860 Sq. M.
F. Container Marshalling Yard	-	12,727 Sq. M.	12,727 Sq. M.
G. Container Freight Station	-	5,000 Sq. M.	5,000 Sq. M.
H. Passenger Terminal	530 Sq. M. 600-passenger capacity	-	
I. Unpaved Storage Area	-	22,863 Sq. M.	22,863 Sq. M.
J. Water Hydrants	8 Hydrants	6 Hydrants	14 Hydrants
K. Reefer Outlets (140 Volts)	-	30 Receptacles	

PORT OF CAGAYAN DE ORO

I. HARBOR FACILITIES

FACILITY/EQUIPMENT	UNIT	DESCRIPTION
Berth	834 M	.45 x .45 R C Piles
Substructure	643 pcs	1030 m/TSP
Substructure		RC Quay, 20.24 m x .415.5 m
Fender System	370 pcs	R C 14.00 m x 567 m rubber fender
Mooring Fixture	27 pcs	60-Ton capacity bollards
	36 pcs	50-Ton capacity bollards
Crane Rail		416.20 m
Berthing Depth		10.5 below MLLWL
No. of berths	3	Foreign
	8	Domestic

II. STORAGE AREAS/OTHER FACILITIES

FACILITY/EQUIPMENT	Unit	DESCRIPTION	CAPACITY/ AREA
General Cargo Transit	2	30m x 90m, 30m x 72m	4,200 sq.m.
Domestic Trade Shed	4	open storage	14,795 sq.m.
Open Transit	1	50m x 215m	5,200 sq.m.
Container Freight Station cum Transit Shed/including ancillary	1	50m x 215m	5,506 sq.m.
Office	1	Admin. bldg.	375 sq.m.
Gate House	1	4-lane	540 sq.m.
Weighbridge	2	Toledo Scale	60 Tons
Power House complete with standby generator	1	500 KVA Gen. Set	385 sq.m.
Water Supply System	15	Fresh water supply	40 Tons/hr.
Electrical Tower	10	8 x 1000 watts	30m high
Access Road	1	PPCC passed with 2 RCDG	500m

III. CARGO HANDLING EQUIPMENT

TYPE	UNITS	CAPACITY
PPA:		
Stand-by generating set	1	500 KVA
Level Luffing Crane	1	25 Tons
Forklift	1	25 Tons
Forklift	2	15 Tons
Forklift	2	3 Tons
Weighbridge	1	60 Tons
INPORT:*		
Mobile Crane	1	25 Tons
	1	10 Tons
Shifter	1	35 Tons
Forklift	2	35 Tons
	1	225 Tons
	1	20 Tons
	1	19.5 Tons
	1	18 Tons
	20	15 Tons
	2	5 Tons
	4	3 Tons
Prime Mover/Chassis	2	40 Footer
CASCO:*		
Mobile Crane	1	35 Tons
	1	25 Tons
Forklift	2	35 Tons
	1	20 Tons
	1	15 Tons
	1	6 Tons
	1	5 Tons
	1	4 Tons
	6	3.5 Tons
	8	3 Tons
	1	2.5 Tons
Prime Mover/Chassis	2	40 Footer
Duck Mule	1	

* Cargo Handling Operators

IV. PORT SERVICES

TYPE OF SERVICE	CONTRACTOR
Arrastre/Stevedoring	Gold City Integrated Port Services (INPORT) Continental Arrastre & Stevedoring Services (CASCO)
Pilotage	Harbor Pilots, Inc.
Bunkering	Caltex, Petrophil
Towing/Tugging Service	Allied Mindanao Tug Marine Services CATIMCO
Weighing Machines	ATCO Enterprises CAPICOR Micro-Machinery, Inc.
Lighterage/Barges	Nottern Mindanao Transport Co., Inc.
Warehousing	ATCO Enterprises BUSCO (Bukidnon Sugar Co.) Carlos Gothong & Co. Escaño Lines William Lines
Freight Forwarders	Danfer Inc. JRS Business Corp. LBC Air Cargo Pambato Cargo Forwarders
Marine Repair Works	Paras Machinery Works, Corp. PICMW (Phil. Iron & Construction Marine Works
Watering	Philippine Ports Authority

ECONOMIC INDICATORS

PORT STATISTICS	1990	1991	1992	1993	1994
I. PASSENGERS					
Disembarked	437862	367168	416714	452824	575695
Embarked	428794	487426	449737	491957	558374
II. CARGO (In Million Tonnage)					
Foreign	0.259	0.242	0.278	0.487	0.261
Domestic	1.229	1.178	1.438	1.651	0.678
III. CONTAINERIZED CARGO HANDLED					
In Metric Tons	647963	650986	845441	958598	1136326
In TEU's	54776	57393	74222	86602	98668
IV. VESSEL STATISTICS					
Vessel Calls	2283	1972	2295	2538	2714
Ave GRT	1667.98	1885.45	1628.15	1739.92	1340.48
Ave. Ship Length (M.)	67.74	73.33	69.88	69.76	78.45
Ave. Waiting Hours	2.10	2.86	1.74	1.91	3.85
Ave. Service Hours	34.88	36.60	33.86	34.17	30.41

Source: Philippine Ports Authority

AIRLINES SERVING CAGAYAN DE ORO AIRPORT

FLIGHT CARRIER	*TYPE*
1. Philippine Airlines	B737-400 passenger (121) cargo
2. Aboitiz Air Transport SYstem	YS-11 (all cargo) Payload:5.8-6.2 MT
3. Pacific Airways Corp.	charter and commuter flights cargo
4. Grand Air*	B737-200 passenger (120)
5. Cebu Pacific Air*	DC-9 Series passenger (163) cargo
6. Air Philippines*	B737-200 passenger(107/125) cargo

Note: * will be operational within the first semester of 1996

AIRLINES SERVING CAGAYAN DE ORO AIRPORT	
FLIGHT CARRIER	***TYPE***
1. Philippine Airlines	B737-400
	passenger (121)
	cargo
2. Aboitiz Air Transport SYstem	YS-11 (all cargo)
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	passenger (120)
5. Cebu Pacific Air*	DC-9 Series
	passenger (163)
	cargo
6. Air Philippines*	B737-200
	passenger(107/125)
	cargo
Note: * will be operational within the first semester of 1996	

ECONOMIC INDICATORS

TOURIST ARRIVAL	1989	1990	1991	1992	1993	1994	Ave. % Increase (decrease)
No. of Tourists	137335	164439	185411	237714	255475	266336	11.44
Domestic Passenger Arrival	149431	153123	176156	223721	234035	248275	10.33
International Passenger Arr	7874	6336	9255	13993	22442	18061	23.7
Hotel Occupancy Rate (%)	51.27	53.81	55.29	61.66	64.15	65.92	58.68
Utilization of Meeting Facilities (No. of Events)	796	1020	1324	1313	2168	1897	18.3

Source: DOT-X

AIRPORT STATISTICS	1990	1991	1992	1993	1994
I. PASSENGERS					
Outbound	139388	129362	156267	162468	173665
Inbound	140723	224871	165303	157468	168439
II. CARGO (MKG.)					
Outbound	-	-	1.367	1.321	3.728
Inbound	-	-	2.936	3.919	3.728

Source: Philippine Airlines

POWER FACILITIES
MISAMIS ORIENTAL

SUBSTATION/ LOCATION	CAPACITY	COVERAGE AREA
I. CEPALCO		
Tagoloan	30 MVA	Cagayan de Oro,
Casaman-an	20 MVA	Tagoloan, Villanueva
Cogon	5 MVA	Jasaan, Opol
Carmen	5 MVA	
II. MORESCO I		
ST1-Alubijid	1500-10000 KVA	Libertad to Taytay, El Salvador
ST2-Manticao	3750 KVA	Lugait to Manticao
ST3-Mambuaya,Cagayan de Oro	150 KVA	CDO Brgys. (Tuburan, Taglimao (Pagalungan, Nidliwan, Tagpangi (Bayangan, Mambuaya)
ST4-Ferrochrome, Manticao	10000 KVA	Ferrochrome
ST5-Talakag, Bukidnon	1000 KVA	Talakag
ST6-Opol	5000 KVA	El Salvador, Opol, CDO Brgys. (Canitoan, San Simon, Pagatpat
ST7-Cabula, CDO	1000 KVA	Cabula to Baungon, Buk.
ST8-Inchrome, Manticao	20000KVA	Electro Alloys, Corp., Manticao
ST9- Asia Brewery, Inc. El Salvador	10000 KVA	Asia Brewery Inc., El Slavador
III. MORESCO II		
Solana ST	5 MVA	Jasaan, Claveria, Balingasag,
Caaelco ST	5 MVA	Lagonglong, Salay, Kinoguitan, Binuangan, Balingoan, Talisayan
Gingoog ST	5 MVA	Sugbongcogon, Medina Medina, Magsaysay, Gingoog City

Source: CEPALCO, MORESCO I & II

CAGAYAN DE ORO-ILIGAN
PLANNED POWER PROJECTS

Name of Project	Capacity	Location
1. Grupo F. Jacinto Coal Fired Plant (for the Phil Integrated Steel Mill Project)	300 MW	Villanueva, Misamis Oriental
2. Mandulog River HEP 1	40 MW	Iligan City/Lanao del Norte
3. Mandulog River HEP 2	40 MW	Iligan City/Lanao del Norte
4. Odiongan River HEP	26 MW	Gingoog City
5. Cabulig River HEP	12 MW	Claveria, Misamis Oriental
6. Kapai River HEP	12 MW	Iligan City
7. Pagayawan Falls HEP	12 MW	Bacolod, Lanao del Norte
8. Bubunawan Falls HEP	6 MW	Baungon, Bukidnon
TOTAL	456 MW	

Note:
Excluding National Power Corp.'s Power Projects
HEP-Hydro Electric Power
MW- Megawatts

EXISTING AND PLANNED
MINDANAO POWER PROJECTS
As of 17 January 1996

PLANNED Power Projects:	Installed Capacity	Time Frame	Location	
Hydroelecteric (HEP):	MW			742
PULANGI V (BOT)	300	2004	Pres. Roxas, No. Cotabato	
AGUS III	224	2001	Pantari, Lanao del Norte	
BULANOG-BATANG (BOT)	150	2003	Talakag, Bukidnon	
TAGOLOAN IV (BOT)	68	2002	Impasug-ong, Bukidnon	
Small HEP:	MW			271.4
MANDULOG RIVER	40		Iligan City/Lanao del Norte	
TRANS AC	30.6		Sultan Kudarat/Maguindanao	
ODIONGAN RIVER (BOT)	26		Gingoog City	
LANON	21.2		Lake Sebu, So. Cotabato	
SIGUIL B	15.1		South Cotabato	
CAPAY RIVER	20		Iligan City/Lanao del Norte	
TAMUGAN	18.9		Davao City	
PUGU - A	18.7	2001	Kitacharao, Agusan del Norte	
SUMAWAN	18.3		Davao City	
PUGU - B	15.1	2001	Kitacharao, Agusan del Norte	
PAGAYAWAN FALLS (BOT)	12		Lanao del Norte	
PUGU - D	11.4	2001	Kitacharao, Agusan del Norte	
ASIGA	11.3		Agusan del Norte	
PUGU - E	6.8	2001	Kitacharao, Agusan del Norte	
BUBUNAWAN FALLS (BOT)	6		Baungon, Bukidnon	
Coal-Fired:	MW			700
Grupo F. Jacinto's Power Plant	300	1999	PIE-MO, Villanueva, Mis. Oriental	
Mindanao Coal I	200	1999	PIE-MO, Villanueva, Mis. Oriental	
Mindanao Coal (BOT)	200		Tukuran, Zamboanga del Sur	
Thermal	MW			682
Base Load Plant	500		not site specific	
Mindanao Land-based Diesel 1 & 2	150		not site specific	
Power Barge Diesel	32		not site specific	
Geothermal	MW			240
APO I (GEO-1-6)	120	1997-98	Kidapawan, No. Cotabato	
APO II	120		Kidapawan, No. Cotabato	
			TOTAL for Planned PP	2,635.40
			OVERALL TOTAL	3,969.50

Legends:
PIE-MO - PHIVIDEC Industrial Authority in Misamis Oriental
BOT - BUild-Operate-Transfor

HEP - Hydro Electric Plant
PP - Power Plants/Projects

EXISTING AND PLANNED
MINDANAO POWER PROJECTS
As of 17 January 1996

EXISTING Power Plants:	Installed Capacity	Location	
Hydroelecteric (HEP):	MW		983.7
PULANGI IV	255	Maramag, Bukidnon	
AGUS VI	200	Buruun, Iligan City	
AGUS II	180	Sagularan, Lanao del Sur	
AGUS-IV	158.1	Nanka, Baloi, Lanao Norte	
AGUS I	80	Marawi City, Lanao del Sur	
AGUS V	55	Buruun, Iligan City	
AGUS VII	54	Buruun, Iligan City	
AGUSAN	1.6	M. Fortich, Bukidnon	
Thermal:	MW		221.8
APLAYA I & II *	126.7	Jasaan, Mis. Oriental	
Davao Light	63.2	Bajada, Davao City	
Gen. Santos *	22.3	Gen. Santos City	
Cotabato Light	9.6	Cotabato City	
Independent Power Producers:	MW		128.6
No. Mindanao Power Corp. *(Alsons-Tomen)*	108.6	Lugait, Mis. Oriental	
Mindanao Energy Systems, Inc. *(MINERGY)*	20	Tablon, Cag. de Oro	
		TOTAL for Existing PP:	1,334.10

* - *scheduled for decommissioning in 1998*

MINDANAO POWER GRID
1995 POWER DEVELOPMENT PROGRAM

YEAR	MONTH	POWER PLANT	TYPE	CAPACITY
1994	APR	Power Barge Diesel 117	Oil	100
	JUN	Agus I - Unit 1	Hydro	40
	JUL	Power Barge Diesel 118	Oil	100
1996	JAN	Diesel Plant	Oil	1 x 50
	JAN	PBGT - IN	Oil	1 x 30
1997	JAN	Diesel Plant	Oil	2 x 50
	JAN	PBGT - IN	Oil	2 x 30
	JUL	Mindanao Geo	Geo	2 X 20
1998	JAN	Mindanao Geo	Geo	4 x 20
	JAN	Diesel Plant	Oil	4 x 50
	JAN	APL and GS (Ret)	Oil	(144)
1999	JAN	Combined Cycle	Oil	150
	JAN	Pugo-B/D (Small Hydro)	Hydro	27
	JUL	Mindanao Coal I	Coal	2 x 100
2000	JAN	Coal-Fired Plant	Coal	1 x 150
2001	JAN	Coal-Fired Plant	Coal	2 x 150
2002	JAN	Coal-Fired Plant	Coal	1 x 150
	JAN	Tagoloan Hydro	Hydro	68
	JAN	Lanon (Small Hydro)	Hydro	21
2003	JAN	Bulanog-Batang Hydro	Hydro	150
	JAN	Coal-Fired Plant	Coal	1 x 150
2004	JAN	Pulangi V	Hydro	300
2005	JAN	Agus III HEP	Hydro	224
	JAN	Coal-Fired Plant	Coal	2 X 150

Source: NCMA, National Power Corporation

MINDANAO POWER DEVELOPMENT PROGRAM (1996-2005)

	Type	MW	% share	Est. Cost (All Projects)
	Coal	1250	45 %	
	Hydro	790	29 %	*$3.7 Billion or P93 Billion to P 104 Billion*
	Oil	590	21 %	
	Geo	120	4 %	

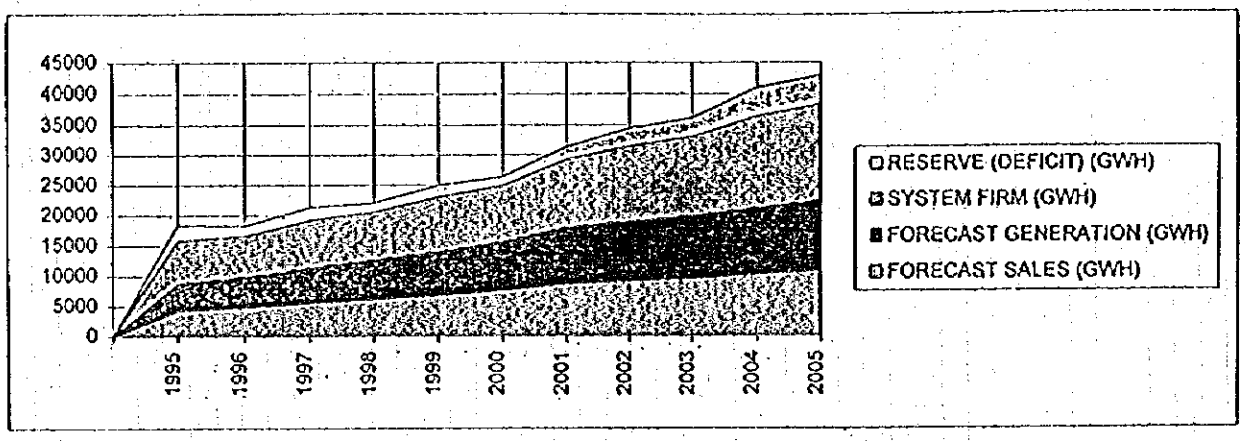
PROJECTED AVERAGE ANNUAL GROWTH IN POWER DEMAND (In Percent)

YEAR	LUZON	VISAYAS	MINDANAO
1994 - 1995	8.0	15.0	6.0
1996 - 2000	12.0	13.4	16.9
2001 - 2005	10.5	10.7	12.0

Source: NCMA, National Power Corporation

MINDANAO POWER GRID
DEMAND AND SUPPLY CONDITION

YEAR	FORECAST SALES (GWH)	FORECAST GENERATION (GWH)	SYSTEM FIRM (GWH)	RESERVE (DEFICIT) (GWH)
1995	4,230	4,536	7,079	2,543
1996	4,780	5,032	6,768	1,734
1997	5,525	5,828	7,925	2,097
1998	6,133	6,469	7,980	1,511
1999	6,807	7,180	9,086	1,906
2000	7,556	7,970	9,384	1,414
2001	8,701	9,178	11,360	2,182
2002	9,174	9,677	12,670	2,993
2003	9,668	10,198	13,263	3,065
2004	10,246	10,808	15,401	4,593
2005	10,854	11,449	16,041	4,592



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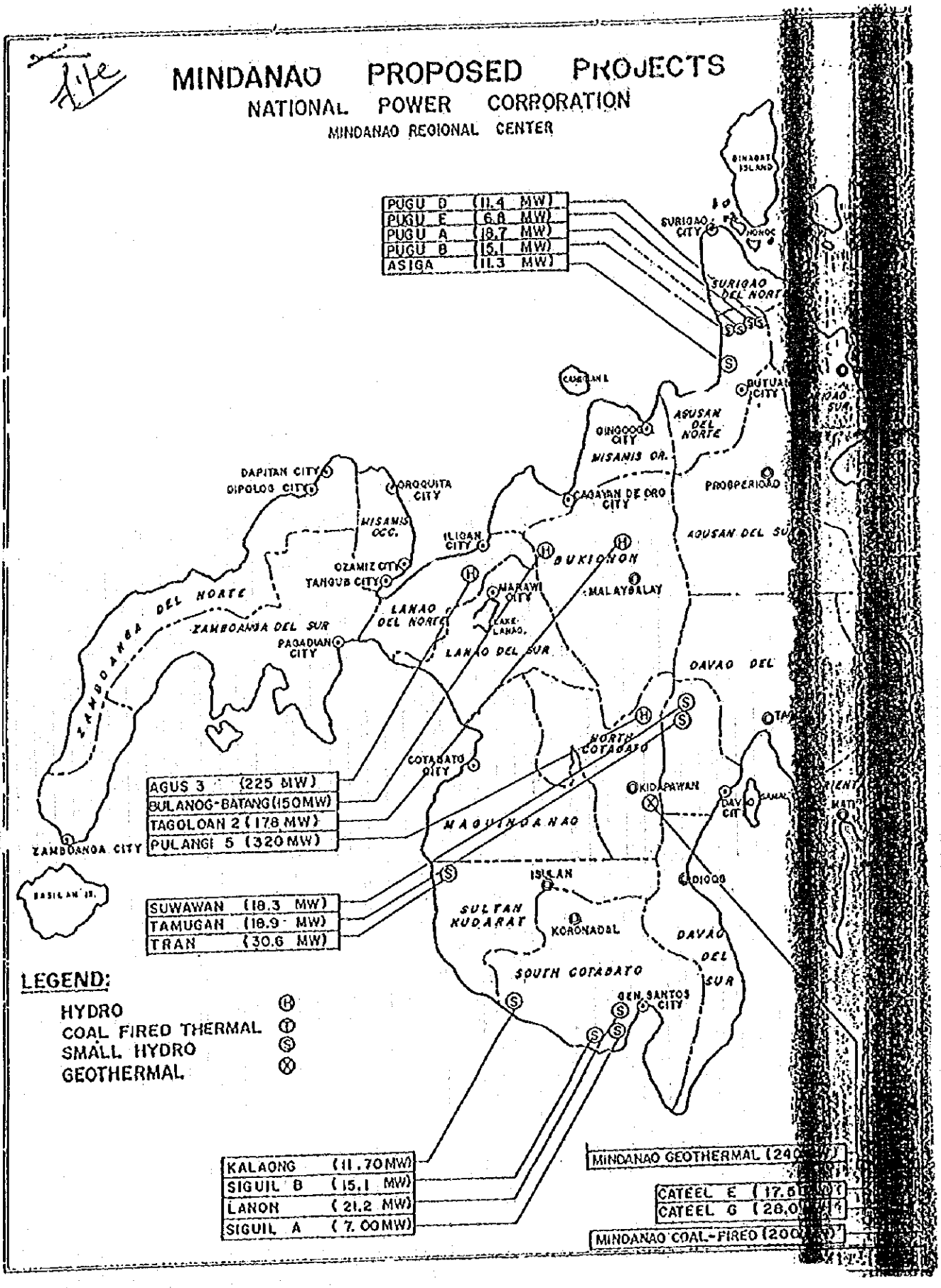
MINDANAO PROPOSED PROJECTS
NATIONAL POWER CORPORATION
MINDANAO REGIONAL CENTER
PUGU D (11.4 MW)
PUGU E (6.8 MW)
PUGU A (18.7 MW)
PUGU B (15.1 MW)
ASIGA (11.3 MW)
SURIGAO CITY
SURIGAO DEL NORTE
BUTUAN CITY
AGUSAN DEL NORTE
CAGAYAN DE ORO CITY
MISAMIS OR.
PROSPERIDAD
AGUSAN DEL SUR
DAPITAN CITY
DIPOLOG CITY
OROQUITA CITY
MISAMIS OCC.
OZAMIZ CITY
TANGUB CITY
ILIGAN CITY
BUKIDNON
MALAYBALAY
MARAWI CITY
LANAO DEL NORTE
LANAO DEL SUR
PAGADIAN CITY
ZAMBOANGA DEL NORTE
ZAMBOANGA DEL SUR
ZAMBOANGA CITY
DAVAO DEL
NORTH COTABATO
COTABATO CITY
KIDAPAWAN
MAGUINDANAO
ISULAN
SULTAN KUDARAT
KORONADAL
DAVAO DEL SUR
SOUTH COTABATO
GEN. SANTOS CITY
AGUS 3 (225 MW)
BULANOG-BATANG (150MW)
TAGOLOAN 2 (178 MW)
PULANGI 5 (320 MW)
SUWAWAN (18.3 MW)
TAMUGAN (18.9 MW)
TRAN (30.6 MW)
KALAONG (11.70MW)
SIGUIL B (15.1 MW)
LANON (21.2 MW)
SIGUIL A (7.00MW)
MINDANAO GEOTHERMAL (240 MW)
CATEEL E (17.6 MW)
CATEEL G (28.0 MW)
MINDANAO COAL-FIRED (200 MW)
LEGEND:
HYDRO
COAL FIRED THERMAL
SMALL HYDRO
GEOTHERMAL

OTHER AVAILABLE POWER RESOURCES FOR DEVELOPMENT IN MINDANAO

NAME	CLASSIFICATION	LOCATION	CAPACITY (MW)	REMARKS
1. Agus III	Hydro	Lanao del Norte	225	Feasibility study completed. Geological investigation for preliminary design is on-going (surface development).
2. Bulanoy Balang	-do-	Bukidnon	150	Feasibility study completed. Geological investigation for definite design is substantially completed.
3. Tagoloan	-do-	Bukidnon	178	Pre-feasibility study completed. Feasibility study for preliminary design is on-going.
4. Pulangi V	-do-	North Cotabato	320	-do-
5. Amusig	-do-	Bukidnon	82	Pre-feasibility study completed.
6. Cagayan IN	-do-	Bukidnon	160	-do-
7. Ugulaban	-do-	Bukidnon	160	-do-
8. Pulangi VI	-do-	North Cotabato	70	-do-
9. Pulangi I	-do-	Bukidnon	24	-do-
10. Pulangi II	-do-	Bukidnon	70	-do-
11. Pulangi III	-do-	Bukidnon	98	-do-
12. Pugu D	small hydro	Agusan del Norte	11.4	Feasibility study conducted by Newjec.
Pugu E	-do-	Agusan del Norte	6.5	-do-
14. Pugu A	-do-	Agusan del Norte	18.7	-do-
15. Pugu B	-do-	Agusan del Norte	15.1	-do-
16. Asiga	-do-	Agusan del Norte	11.3	-do-
17. Suwawan	-do-	Davao City	18.3	-do-
18. Tamugan	-do-	Davao City	18.9	-do-
19. Tran AC	-do-	Sultan Kudarat	38.6	-do-
20. Kafaong	-do-	South Cotabato	11.7	-do-
21. Siguil B	-do-	South Cotabato	15.1	-do-
22. Lanon	-do-	South Cotabato	21.2	-do-
23. Siguil A	-do-	South Cotabato	7.8	-do-
24. Cateel E	-do-	Davao Oriental	17.5	-do-
25. Cateel G	-do-	Davao Oriental	28.0	-do-
26. Pengail Bay Tidal Power				

SUMMARY OF MINDANAO SMALL HYDROPOWER PROJECTS

Subject to Future Calculation

NO	REGION	PROJECT NAME	LOCATION	INSTALLED CAPACITY	PROJECT COST	INSTALLATION COST	ANNUAL ENERGY	ENERGY COST	PLANT FACTOR	BENEFIT COST	ECONOMIC INTERNAL RATE OF RETURN
				(MW)	(US $)	COST / KW	(GWH)	Peso/KWHr*	(%)	(B/C)	(EIRR)
1	X	PUGU D	Agusan del Norte	11.4	18,535,000	1,625	51.6	1.22	51.57	> 1.43	> 22.30
2	X	PUGU E	Agusan del Norte	6.8	15,430,000	2,259	33.1	1.58	53.05	> 1.13	> 14.40
3	X	PUGU A	Agusan del Norte	38.7	35,118,000	1,931	82.9	1.48	50.61	> 1.27	> 17.70
4	X	PUGU B	Agusan del Norte	15.1	25,497,000	1,689	71.0	1.22	53.66	> 1.43	> 21.90
5	X	ASIGA	Agusan del Norte	11.3	22,287,000	1,972	46.6	1.62	47.08	> 1.16	> 15.70
6	XI	CATEEL E	Davao Oriental	17.5	36,355,000	2,077	78.7	1.57	51.34	> 1.18	> 15.50
7	XI	SUWAWAN	Davao City	18.3	29,629,000	1,619	46.6	2.15	29.07	> 1.22	> 12.00
8	XI	TAMUGAN	Davao City	18.9	31,818,000	1,683	18.2	2.24	29.11	> 1.18	> 15.40
9	XI	LANON	South Cotabato	21.2	20,477,000	966	55.3	1.23	30.32	> 1.44	> 36.00
10	XI	SIGUIL B	South Cotabato	15.1	30,898,000	2,046	53.2	1.95	40.57	> 1.09	> 13.80
11	XII	TRAN AC	Sultan Kudarat/ Maguindanao	30.8	57,717,000	1,885	85.0	2.30	31.71	> 1.08	> 13.20

Note: *Including O & M Cost of $1D/KW-Year

TELECOMMUNICATIONS

MISAMIS ORIENTAL TELEPHONE SYSTEM
(MISORTEL)

ACTUAL IN-SERVICE TELEPHONE LINES
CAGAYAN DE ORO AND SINGOOG EXCHANGE
As of April 15, 1995

	Local Lines		SWITCH	TRUNK ALLOCATION		SWITCH
	Residential	Commercial	TYPE	INCOMING	OUTGOING	CAPACITY (# of lines)
Cagayan de Oro Exchange	1245	1424	Cross bar	10	10	2000
	3520	2887	Digital IDX-1B	188	232	22500
Singoog City Exchange	345	115	Digital SL-1N	11 bothways		1200
Toll Trunk Allocation with interconnecting companies:						
> PLDT/PILTEL				113	157	
> PT & T				15	15	
> PHILCOM				15	15	
> GLOBE				15	15	
> EASTERN				15	15	
> EXTELCOM				15	15	

Source: MISORTEL

MISORTEL EXPANSION PROGRAM
1996-2004

DISTRIBUTION	EXISTING	PROPOSED		
	1991-1995	1996-1998	1999-2001	2002-2004
Alubijid		1151‡	218	300
Balingasag		161	164	250
Balingoan		81	100	150
Binuangan		81	16	100
Cagayan de Oro	9327	1620‡‡	2200	3400
Claveria		161	100	150
El Salvador		341‡	500	700
Gingoog City	460	1000	1250	1600
Gitagum		81	32	64
Initao		81	32	64
Jasaan		301‡	350	550
Kinoguitan		81	16	32
Lagonglong		81	16	32
Laguindingan		121‡	150	250
Libertad		81	16	32
Lugait		161	100	150
Magsaysay		81	16	32
Manticao		81	16	32
Medina		161	100	200
Naawan		81	16	32
Opol	150	351‡	500	700
Salay		81	100	150
Sugbongcogon		81	16	64
Tagoloan		351‡	500	800
Talisayan		81	16	64
Villanueva		151‡	250	400

Legend:
‡ Point to Point Multi-Radio Telephone System
‡‡ Expansion of 8450 lines

CIC INFRASTRUCTURE TASK FORCE *telec95.xls*
Telecommunications Committee
Accomplisment Report
CY 1995

PROGRAM/ACTIVITY/ PROJECT	Telephone Lines Required TARGET	ACCOMPLISHMENT
1. CIC Telephone Service Improvement Program		
1.1 1991-1995	17,408	28,027 161%
1.2 1996-2000	3,870	54,670 (1996 Target)
1.3 2001-2005	4,664	
1.4 2006-2010	5,637	
TOTAL	**31,579**	**77,955**
Telephone Density Index:		
Target 1995	2.12	
Actual 1995		2.72
Projected 1996	5.93	

telec95.xls

CAGAYAN DE ORO WATER DISTRICT
LIST OF PROJECTS

1. Existing (Implemented In 1993-1995)

Location:	Balulang	Calaanan	Mandumol
Project Cost:	P13.5 M	P19.6 M	P7.3 M

Scope of Work:

well development and drilling
installation of pumping equipment
provision of standby power facilities
installation of pipelines
provision of electro-mechanical and support facilities

2. Implementation of other crash projects

Project Cost: P20.5M

3. 3rd phase COWD Improvement and Expansion Program

Project Cost: P78.36M

Status: On Going drilling of 2 deep wells

CAGAYAN DE ORO CITY WATER DISTRICT
Corrales Ave., Cagayan de Oro City

COMPARATIVE DATA on COWD FACILITIES

TABLE 1

FACILITIES	ACTUAL and/or EXISTING		
	1973	1983	1993
WATER RESOURCES:			
No. of Deepwells	11	6	12
No. of Springs	1	1	1
No. of Surface Water Sources	none	none	none
Total Production Capacity	18,000 cumpd	27,809 cumpd	65,208 cumpd
PUMPING EQPT & TREATMENT FACILITIES			
No. of Pumping Equipment	11	14 units	18 units
No. of Chlorinators	none	5 units	8 units
TRANS/DIST PIPELINES & SERVICES:			
Total Length of Pipelines (km.)	39.67	137	245
Total No.of Service Connections	3,580	21,200	41,334
Total No. of Barangays served	8	17	27
STORAGE FACILITES:			
No. of Elevated Reservoirs	3	3	1
No. of Ground Reservoirs	1	3	4
Total Capacity of Reservoirs	948 cum	11,554 cum	14,913 cum
STANDBY POWER FACILITIES:			
No. of Deisel Engine Units	2	2	3
No. of Generating Sets	none	1	9
Total Capacity of Gensets (kva)		175 kva	2,214 kva
SUPPORT FACILITES:			
Office Building	none	1	1
Shop Building	none	1	1
Property Building	none		1
Laboratory & Opns Building	none		1
Pump/Shed Houses	11	6	12
EQUIPMENT & VEHICLES:			
No. of Heavy Equipment	none	2	2
No. of Light Equipment	none	21	28
No. of Vehicles	none	15	24
COMMUNICATION FACILITIES:			
No. of VHF Radio bs/mobile units	none	14	14
No. of VHF Radio Handheld units	none	1	11
Repeater System	none	none	1

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Impl Org (revised) 07117

CAGAYAN DE ORO CITY WATER DISTRICT
Corrales Avenue, Cagayan de Oro City

PHASE III IMPROVEMENT/EXPANSION PROGRAM

PROJECT TITLE/DESCRIPTION & LOCATION	CRASH PROGRAM				COMPREHENSIVE PROGRAM						TOTAL PROJECT
	IMPLEMENTATION YEAR / PROJECT COST			PROJECT COST (SUB TOTAL)	IMPLEMENTATION YEAR / PROJECT COST					PROJECT COST (SUB TOTAL)	
	1993	1994	1995		1996	1997	1998	1999	2000		
1. DEEPWELLS/PUMPING STA	6,862,216.00	7,868,989.00	13,973,004.00	28,704,209.00	11,920,000.00	9,820,000.00	6,160,000.00	6,160,000.00	16,160,000.00	50,220,000.00	78,924,2
2. STORAGE FACILITIES			419,591.00	419,591.00	4,000,000.00	2,000,000.00				6,000,000.00	6,419,5
3. SUPPORT FACILITIES	614,139.00	347,955.00	2,900,593.00	3,862,687.00	1,500,000.00	3,448,466.00	5,050,000.00	15,050,000.00	50,000.00	25,038,466.00	28,901,0
4. TRANS/DIST PIPELINES	7,776,196.00	17,688,283.00	15,036,629.00	40,501,124.00	108,187,483.00	106,791,669.00	1123,954,320.00	1124,954,320.00	1104,954,320.00	574,842,112.00	615,403,2
5. EQPT/TOOLS/VEHICLES	3,137,476.00	9,716,760.00	583,411.00	13,435,647.00	680,614.00	3,426,645.00	3,600,000.00	15,000,000.00	1,300,000.00	24,007,265.00	37,446,9
6. COMMUNICATION:	379,875.00	728,400.00	700,000.00	1,808,275.00	800,000.00	700,000.00	500,000.00	500,000.00	500,000.00	3,000,000.00	4,808,2
7. SERVICE CONNECTIONS	2,400,000.00	2,400,000.00	2,400,000.00	7,200,000.00	3,600,000.00	3,600,000.00	3,600,000.00	3,600,000.00	3,600,000.00	18,000,000.00	25,200,0
TOTAL PROJECT COST	21,169,902.00	138,752,394.00	136,073,238.00	95,995,534.00	130,688,097.00	1129,786,724.00	1148,864,320.00	1165,264,320.00	1126,564,320.00	701,167,781.00	19797,163,3

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TOURISM

STATISTICAL DISTRIBUTION OF TRAVELLERS TO REGION 10
BY COUNTRY OF RESIDENCE
For the Year Ended December 31, 1995

COUNTRY OF RESIDENCE	FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER	REGIONAL TOTAL	PERCENTAGE OF TOTAL
Philippines:						
Filipino Resident	129,039	85,421	89,746	86,413	390,619	
Alien Resident						
Sub-Total	129,039	85,421	89,746	86,413	390,619	95.37%
Foreign Countries:						
Saudi Arabia				14		0.00%
Australia	487	348	138	698	1,671	0.41%
Canada	287	209	296	125	917	0.22%
France	193	93	108	81	475	0.12%
West Germany	157	279	451	485	1,372	0.33%
Hongkong	111	48	89	90	338	0.08%
Indonesia	59	14	8	98	179	0.04%
Italy	157	52	47	194	450	0.11%
Japan	905	652	796	540	2,893	0.71%
Korea	312	112	77	139	640	0.16%
Malaysia	71	42	65	66	244	0.06%
Singapore	46	38	34	53	171	0.04%
Spain			1	16	17	0.00%
Switzerland	271	189	260	332	1,052	0.26%
Taiwan	187	74	102	76	439	0.11%
Thailand	29	9	12	16	66	0.02%
United Kingdom	29	96	103	209	437	0.11%
U.S.A.	1,368	589	782	855	3,594	0.88%
Balikbayan	361	167	193	337	1,058	0.26%
Others	1,724	345	441	415	2,925	0.71%
TOTAL	6,754	3,356	4,003	4,839	18,952	4.63%
GRAND TOTAL	135,793	88,777	93,749	91,252	409,571	100.00%

Sources: 1) Survey on the Regional Distribution of Travellers based on the Usage of Tourist Accommodation Facilities

2) Bureau of Customs Crew Manifest of Ocean-Going Vessels

Inventory of Existing Tourist Attractions and Facilities

in the

Cagayan de Oro - Iligan Corridor

Misamis Oriental

The eastern portion of Misamis Oriental comprises the municipalities of Tagoloan, Villanueva, Jasaan, and Claveria. The western portion municipalities are: Opol, El SAlvador, Alubijid, Laguindingan, Gitagum, Libertad, Initao, Naawan, Manticao, and Lugait. It is blessed with fine beaches and other natural attractions.

Tourist Attractions:

1. Lauremar Beach Resort and other Opol beaches
2. Midway Beach Resort (*Initao*) - ideal for ordinary family weekend
3. Agutayan Island (*Jasaan*) - small, white sand bar ideal for swimming and scuba diving
4. Sagpolon Spring/Falls (*Jasaan*) - semi-circular cliff with spring outlets and natural pool
5. Sabio Beach (*Villanueva*) - best for boating and sailing
6. Mat-i Falls (*Claveria*)
7. Initao National Park - forest by the sea; home to rare species of split-nosed bats

Accommodation Facilities: Misamis Oriental has at least 11 accommodation facilities ranging from first class to budget-type standards. Among these are:

Lauremar Resort Hotel	-	Opol
Roan Beach	-	Opol
IRETC Training Center	-	Laguindingan
Beach Cottages	-	Initao
Sabio Country Club	-	Villanueva
Emeralda Beach Resort	-	Initao

Cagayan de Oro City

Basically a business and trade center, the City is ideal for small to big gatherings like seminars, conferences, and conventions. However, some natural attractions located a few kilometers from the city provide a good alternative.

Tourist Attractions:

A. Museums

1. Museo de Oro (Xavier University) - exhibits relics of Bukidnon & Maranao cultures
2. Shell Museum - features a unique collection of shells like the Haitian Tree Snail, and the Pink-Mouthed Murex.

B. Parks

1. Gaston Park
2. Mc Arthur Park
3. Golden Friendship Park
4. Wet Adventure Park

C. Natural Tourist Spots

1. Lawndale Spring (Macasandig)
2. Macahambus Cave & Gorge - underground caves& a 130-ft. circular gorge
3. Catanico Falls - concealed by huge boulders, cascading falls/natural pool
4. Malasag Nature Trail - ideal for horseback riding, mountain climbing/biking.

D. Beaches

1. Chali Beach Resort - Gusa
2. Acuna Beach - Baloy
3. White Beach - Bayabas

E. Festival

1. Kagayha-an Festival - Aug. 28

Accommodation Facilities: The City has 11 hotels, 17 inns/pension houses/apartels, 5 lodging houses, 15 travel agencies, & 6 rent-a-car companies

Pryce Plaza
De Luxe Hotel
VIP Hotel
Philtown Hotel
Grand City Hotel
New Waldorf Hotel
Vacation Hotel de Oro
Dynasty Hotel
Hotel Conchita
Park View Lodge
City Lodge
Golden Star Lodge II
Penthouse Lodge
Estrella Hotel
Harbor Lights
Middleton Apartelles
Angela Mansion
... and others

Bukidnon

Bukidnon is being promoted as a cultural destination. As such, its major tourism activity is the Kaamulan Festival celebrated every 2nd week of September which features the tribal dances, indigenous sports and ancient rituals of the various tribal groups in the area. This, however, should not overshadow the existence of various tourist destinations open all year round both natural and man-made.

Tourist Attractions:

1. 18-hole Del Monte Golf Course
2. Mangima Canyon - Sayre Highway
3. Mt. Kitanglad National Park - home to the Phil. Eagle, with more than 6 dozen mountain peaks.
4. Paiyak Cave (Sumilao) - a well preserved cliffside cave
5. Kaamulan Park (Malaybalay) - good camping grounds, rodeo activities
6. Nasuli Springs (Malaybalay) - naturally cold spring
7. MGM Resort (Dologon, Maramag)- swimming pools for kids and adults
8. Mangima Spring Resort
9. Pinamaloy, Napalit, & Apo Lakes

Accommodation Facilities: Bukidnon has at least 11 accommodation facilities ranging from a clubhouse (Del Monte), hotel, lodges, and inns.

Del Monte Club House	-	Philips, Manolo Fortich
Casa Crista Lodge	-	Malaybalay
Haus Malibu	-	Malaybalay
Saver's Plaza	-	Malaybalay
Mountain View College	-	Valencia
Emee's Lodge	-	Valencia
Gene's Lodge	-	Valencia
Losamhil Lodge	-	Valencia
New Valencia Hotel	-	Valencia
Central Mindanao Univ.	-	Musuan, Maramag

Iligan City

The City of Iligan is better known for its being an industrial center - home to fourteen (14) major manufacturing industries. However, it has its own share of tourist destinations. It has 20 waterfalls (one of which is the Maria Cristina Falls, the source of hydro electric power), 9 springs, 4 caves, and 1 golf course.

Camiguin

Dubbed as the "Island Paradise" of Northern Mindanao, Camiguin offers a variety of historical and natural tourist attractions. It has 20 existing resort facilities but there are on-going constructions for additional rooms/cottages.

Tourist Attractions:

A. Historical

1. Catarman Church Ruins - adobe walls, bellfry and convent left by the 1871 earthquake
2. Cross Marker & Sunken Cemetery - marker for the community which sank during the earthquake

B. Natural

1. Katibawasan Falls - 250 ft. high waterfalls cascading to a rock pool below
2. Ardent Hot Springs - hot spa of 40 C temperature; water coming from Mt. Hibok-Hibok
3. Tangub Hot Spring - volcanic hot spring by the sea
4. Sto. Nino Cold Spring -
5. Mt. Hibok-Hibok - the only active volcano among 7 volcanoes
6. Old Vulcan - landmark of *Panaad* (a Holy Week activity); 14 stations of the Cross
7. White Island - uninhabited small white sand bar
8. Mantigue Island - 4 hectares of evergreen forest with white sand beach
9. Agohay Beach - one of the favorite sandy beaches; good camping area for mountaineers
10. Tanguines Lagoon -

C. Festivals

1. Lanzones Festival (3rd weekend of Oct.)
2. San Juan Hibok Hibokan
3. Panaad (Holy Week)

Accommodation facilities:

Ardent Hot Spring Resort
Jasmin by the Sea
Tia's Cottages
Camiguin Travel Lodge
Morning Glory Beach Resort
Caves Beach Resort
Camiguin Seaside Lodge (Agohay)
Mychellin Beach Resort
Lagoon Travel Lodge
Camiguin Island Resort, Inc.
Bahay-Bakasyonan
Turtle Nest Beach Cottages
Tree House Bolok-Bolok
Gamorot Beach Resort
Sunshine Beach Resort
Payag Beach Resort
Balbagon Beach Resort

EDUCATION, TRAINING & GOVERNMENT SERVICES

CAGAYAN DE ORO ILIGAN CORRIDOR
LIST OF MAJOR COLLEGES/UNIVERSITY/TECHNOLOGY SCHOOLS

NAME OF SCHOOL	*LOCATION*
1. XAVIER UNIVERSITY	CAGAYAN DE ORO CITY
2. MINDANAO POLYTECHNIC STATE COLLEGE	CAGAYAN DE ORO CITY
3. MINDANAO STATE UNIVERSITY-ILIGAN INSTITUTE OF TECHNOLOGY	ILIGAN CITY
4. LICEO DE CAGAYAN	CAGAYAN DE ORO CITY
5. CAGAYAN DE ORO COLLEGE	CAGAYAN DE ORO CITY
6. CAGAYAN CAPITOL COLLEGE	CAGAYAN DE ORO CITY
7. ST. MICHAEL COLLEGE	CAGAYAN DE ORO CITY
8. LOURDES COLLEGE	CAGAYAN DE ORO CITY
9. PILGRIM CHRISTIAN COLLEGE	CAGAYAN DE ORO CITY
10. SOUTHERN DE ORO COLLEGE	CAGAYAN DE ORO CITY
11. NORTHERN MINDANAO TECHNICAL INSTITUTE	CAGAYAN DE ORO CITY
12. MINDANAO INSTITUTE OF CAREER MANAGEMENT	CAGAYAN DE ORO CITY
13. SYSTEMS TECHNOLOGY INSTITUTE	CAGAYAN DE ORO CITY
14.CATHEDRAL SCHOOL OF TECHNOLOGY	CAGAYAN DE ORO CITY
15. NORTHERN MINDANAO POLYTECHNIC SCHOOL	CAGAYAN DE ORO CITY
16.ST. JOHN VIANNEY THEOLOGICAL SEMINARY	CAGAYAN DE ORO CITY
17.ILIGAN CAPITOL COLLEGE	ILIGAN CITY
18. ILIGAN MEDICAL CENTER COLLEGE	ILIGAN CITY
19. MINDANAO SANITARIUM COLLEGE OF MEDICAL ARTS FOUNDATION, INC.	ILIGAN CITY

20.ILIGAN CITY TECHNICAL COLLEGE	ILIGAN CITY
21. ST. PETER'S COLLEGE	ILIGAN CITY
22. STA. MONICA INSTITUTE OF TECHNOLOGY	ILIGAN CITY
23. TORRALBA BUSINESS COLLEGE	ILIGAN CITY

CAGAYAN DE ORO ILIGAN CORRIDOR

GOVERNMENT SERVICES

1. FRONTLINES ON INVESTORS/BUSINESS SERVICING

ONE STOP INVESTMENT ACTION CENTER, DTI
ONE STOP EXPORT DOCUMENTATION CENTER, DTI

2. EDUCATION, TRAINING , TECHNICAL SERVICES AND QUALITY CONTROL

DEPARTMENT OF EDUCATION, CULTURE & SPORTS
DEPARTMENT OF SCIENCE & TECHNOLOGY
TECHNICAL EDUCATION & SKILLS DEVELOPMENT AUTHORITY
BUREAU OF PRODUCT STANDARDS, DTI

3. HEALTH, SOCIAL WELFARE, HOUSING, INSURANCE SYSTEM

DEPARTMENT OF HEALTH
DEPARTMENT OF SOCIAL WELFARE DEVELOPMENT
NATIONAL HOUSING AUTHORITY
PAG-IBIG-HOME MORTGAGE DEVELOPMENT FUND
GOVERNMENT SERVICE INSURANCE SYSTEM
SOCIAL SECURITY SYSTEM
LOCAL GOVERNMENT UNITS

4. LOCAL GOVERNMENT MANAGEMENT, SECURITY, PEACE AND ORDER MAINTENANCE

DEPARTMENT OF INTERIOR AND LOCAL GOVERNMENT
DEPARTMENT OF NATIONAL DEFENSE

5 AGRICULTURE , FOOD

DEPARTMENT OF AGRICULTURE
NATIONAL FOOD AUTHORITY

6 INFRASTRUCTURE, TRANSPORTATION, COMMUNICATIONS, POWER & ELECTRIFICATION

DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS
NATIONAL POWER CORPORATION
DEPARTMENT OF ENERGY
MISAMIS ORIENTAL TELEPHONE SYSTEM, PROVINCIAL GOV'T

7. LAND USE, ENVIRONMENTAL & NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES
DEPARTMENT OF AGRARIAN REFORM
HOUSING AND LAND USE REGULATORY BOARD

8. INVESTMENTS, TRADE AND INDUSTRY

DEPARTMENT OF TRADE AND INDUSTRY
BOARD OF INVESTMENTS
LOCAL GOVERNMENT UNITS
SECURITIES AND EXCHANGE COMMISSION
PHIVIDEC INDUSTRIAL ESTATE
DEPARTMENT OF FINANCE

ANNEX "B"

REGION 02 PROFILE

Region 02, otherwise known as Cagayan Valley, as an alternative investment site offers a handful comparative advantages that serve as additional attractions to prospectors, two of which are its proximity to ASEAN countries and the presence of an international seaport.

It is composed of the provinces of Batanes, Cagayan, Isabela, Quirino, Nueva Vizcaya and the City of Santiago.It is located on the northeastern part of mainland Luzon,lying between the Sierra Madre, Caraballo, and Cordillera ranges. The island province of Batanes is located north of the coast of Cagayan.

The following are the respective capital towns as well as growth centers:

PROVINCE	# OF MUNICIPALITIES	CAPITAL TOWN	GROWTH AREAS
BATANES	6	Basco	Basco
CAGAYAN	29	Tuguegarao	Tuguegarao
			Aparri
			Ballesteros
			Claveria
ISABELA	37	Ilagan	Ilagan
			Cauayan
			Santiago City
NUEVA VISCAYA	15	Bayombong	Bayombong
			Solano
			Bambang
QUIRINO	6	Cabarroguis	Cabarroguis
			Maddela

The region covers an area of about 26,858.79 square kms. classified as follows:

DESCRIPTION	EXTENT (HECTARES)	
A. PROTECTED AREAS		675,569
1. Protection Forest	757,688	
2. Extensive Land Use	105,041	
B. PRODUCTION AREAS		811,103
1. Protection Forest	357,632	
2. Extensive Land Use	400,380	
3. Intensive Land Use	53,091	
C. RESERVATION		9,330
D. ALIENABLE & DISPOSABLE		987,523
E. UNCLASSIFIED		178
T O T A L		2,683,993

RESOURCES

CROPLAND

There are 847,445 hectares available for crop production in the region broken down, to wit:

LAND USE	AREA (Hectares)	
Rice-based		379,450
Irrigated	313,750	
Rainfed	66,790	
Corn-based		244,461
Others *		223,534
T O T A L		847,445

**Include areas planted to vegetables, legumes, fruits and rootcrops, etc.*

MANPOWER

The total labor force of the region as of the 1st quarter of 1995 is an aggregate of 1.192 million. The labor force participation rate (LFPR) fell by 2.7 % from the 72.7 % level of last year. Please see figures below.

	REGION 02	BATANES	CAGAYAN	ISABELA	QUIRINO	NUEVA VIZCAYA
LABOR FORCE	1,192	8	455	500	174	55
EMPLOYED	1,154	7.11	437	489	166	54
UNEMPLOYED	38	0.89	18	11	8	1
LFP RATE	70	88.9	75.8	63.3	79.5	64

GEOGRAPHY

The region is located on the northeastern part of mainland Luzon. It has a rugged terrain along its boundaries, with the forest covered Sierra Madre Mountain ranges bounding it on the east, Caraballo and Cordillera ranges on the west, the China Sea on the north and the provinces of Nueva Ecija and Quezon on the south.

Between the ranges lies the valley where most of the population live along the banks of the Cagayan River and its tributaries, which in turn flows into the China Sea. The Batanes group of Islands is located north of the coast of Cagayan, between the China Sea and the Pacific Ocean.

CLIMATE

There are two pronounced weathers, the dry which generally occurs beginning December up to May and wet from June up to November. Hot months are from March to May and extend up to August.

POPULATION

As of 1990, the population of the region registered at 2,340,652.

COMPARATIVE POPULATION PER PROVINCE & CITY

	1990	1994
BATANES	15,026	16,449
CAGAYAN	829,974	882,293
ISABELA	1,080,341	1,179,175
NUEVA VIZCAYA	301,179	329,113
QUIRINO	114,132	130,030
SANTIAGO CITY	90,568	101,244

DIALECT

Major dialects spoken are Ilocano, Ybanag, Ytawes and Pilipino. In Batanes the people speak Ivatan. English is generally understood and spoken.

FAMILY INCOME AND EXPENDITURE

1. STATISTICAL INFORMATION:

1.1 Family Income and Expenditure Level

The average income in 1991 (at 1991 current prices) is estimated at P50,850, below the national average of P65,186. Family expendture is measured at P39,991 or 78.64% of the total income earned in 1991. Compared in real terms (at 1988 prices) to its 1988 levels, annual average income increased by 4.01% as against as increase of 10.29% in average expenditure. Thus,in real terms, average savings ratio in 1991 is placed at 21.36% or P7,362 reflected a reduction of almost 11.65% of its 1988 level of P8,357.

Contribution of the top 20% income earners increased to 53.9% of the region's total income while the bottom 30% further reduced their share to 8.5%.

INDUSTRIES

Major industries are agriculture, with rice and corn as main crops, livestock production of cattle, hogs, carabaos and poultry; furniture making of narra, rattan and other indigenous materials; fishing specially along the coast of Cagayan and Batanes and also Magat Dam in Isabela and manufacturing of goods. A potential industry in the area is mining which remains untapped to this day due to financial and technical problems.

LABOR STANDARD CASES, REGION 02: 1994-1995

INDICATOR	1994	1995 TOTAL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Regional Office (Original)														
Case Pending, Beginning	24	429	23	0	0	3	29	19	59	103	39	25	23	106
Case Newly Filed	476	563	0	0	8	26	1	69	103	39	51	0	184	82
Total Handled	500	992	23	0	8	29	30	88	162	142	90	25	207	188
Total Disposed	477	579	23	0	5	0	11	29	59	103	65	2	101	181
Disposition Rate (%)	95.4	566	100	0	63	0	36.7	33	36	73	72	8	48.8	96
Workers Benefited	5,240	4586	92	0	60	0	406	323	583	829	423	5	1028	837
Amount of Benefits (P000)	986.7	3143	341	0	28	0	309	616	224	821	139	14	403	248

Source of data: Bureau of Labor and Employment Statistics,
Statistical and Performance Reporting System (DOLE Regional Office)

MAJOR PRODUCTS OF INDUSTRIES

I. GIFTS, TOYS and HOUSEWARES

1. Dried flowers made of tropical seeds,weeds/grass, leaves , twigs and vines
2. Handmade paper made out of cogon grass, banana & rice stalks, and other fibrous materials
3. Baskets made out of rattan wicker and splits, vines, twigs, rope, and other fibrous materials
4. Stuffed toys made of textile, cotton and other fibrous materials

II. FURNITURE
1. Wood Furniture
2. Rattan Furniture
3. Metal Furniture
4. Combination of Wood and Rattan
5. Combination of Wood, Metal and Rattan Furnitures

III. CERAMICS
1. Terracotta

IV. CUTFLOWER
1. Orchids
2. Roses
3. Gladioli
4. Chrysanthemum
5. Anthurium

V. AQUA-MARINE
1. Prawn
2. Fish
2.1 Cattle fish
2.2 Milkfish
2.3 African Catfish
2.4 Octopus
3. Sea Weeds

Infrastructure Facilities/Amenities

SEAPORT	
International	1
Domestic/Provincial Pier	4
Municipal	4
AIRPORT	
Domestic	4
ROAD NETWORK (in kilometer distances)	
Concrete	673.9
Asphalt	149.8
Gravel	889.0
TOTAL	1,712.7

TRANSPORTATION	
Water Transportation	
Motor Banca	
Motor Vessel	
Land Transportation	
Jeepney	5
Bus (Manila Inbound-Outbound)	16
Truck	
Tricycle	
Air Transportation	
Government (PAL)	1
Private (Cyclone Airways & NASI)	2
PUBLIC FACILITIES	
AM Band	11
FM Band	8
TV Station	0
Cable TV	4
TELEPHONE SERVICES (Domestic/Overseas)	
Government	2
Private	3
OTHER COMMUNICATION FACILITIES	
Courier	4
Telegram (RCPI/PT&T/BUTEL)	3
Post Offices	91
FINANCIAL INSTITUTIONS	
Commercial	29
Government	13
HOSPITAL/CLINICS/HEALTH CENTERS	
Government	83
Private	33
HOTEL/LODGING HOUSES	30

carol/486/region

STATISTICAL SUMMARY OF MINERAL RESOURCES AND ESTIMATED ORE RESERVES

Region 02

Location by Province

MINERAL (MT)	BATANES	CAGAYAN	ISABELA	QUIRINO	N. VISCAYA	TOTAL
METALLIC						
Gold	Possible	1,000,000	5,000,000	5,000,000	8,000,000	19,000,000
Chromite			48,000			48,000
Iron (Lump Ore)		21,000				21,000
Iron (Sedimentary Type)		1,222,552				1,222,552
Magnetite Sand		7,000,000				7,000,000
Manganese		20,000	21,000			41,000
Copper			14,980		50,000,000	50,014,980
Nickel			5,000,000			5,000,000
Lead Zinc					Prospect	
NON-METALLIC						
Clay (Feldspar)					800,000	800,000
Ceramic Clay	1,000	85,000				86,000
Bentonite Clay		5,600,000				5,600,000
Red Burning Clay		5,625,000	899,300			6,524,300
Perlite		10,000,000				10,000,000
Sulfur		220,000		20,000		240,000
Marble					500,000,000	500,000,000
Diorite					200,000,000	200,000,000
Quartz Diorite					25,000,000	25,000,000
Limestone	10,000	268,000,000	289,000,000	5,000,000	25,000,000	587,010,000
Gypsium		Prospect			Prospect	
Pyrite (cubic m)		Prospect				
GRAVEL & SAND		71,521,175	1,970,626	8,172,700	6,499,250	88,163,751
FERTILIZERS						
Guano		10,000	106,000	10,000	21	126,021

ANNEX "B"

2. The feasibility Study of the Sta. Ana Regional Growth Center is still on-going and its expected completion is on May 16, 1996 . Based on the project concept , however , the proposed development of the site revolves around a self contained area where specific delineations are given for industrial use , recreational area , telecommunication , power system , water system , housing and commercial area , and warehouses.

3. With regards to environmental regulation and law in relation to the proposed RGC , part of the Feasibility Study being prepared is the Environmental Study. This aspect is expected to discuss the environmental impact assestment vis-a-vis the identified industry mix for the area.

4. Among the comparative advantages of developing an Industrial Communiety in the RGC project site are as follows :

4.1 The proximity of the site to Asian Dragons like Hong Kong , Taiwan and Japan.

4.2 The presence of the Sta. Ana Port which has been classified as international Sea port.

4.3 The vast tract of lands in the Region.

4.4 The abundant and diverse resources of the region.

4．質問票B
各地方あて

別添2

QUESTIONNAIRE TO EACH REGIONAL OFFICIALS
-ILOCOS, NORTHERN MINDANAO, SOUTHERN MINDANAO-

1. Statistical information to know the economical and social conditions in each region and province

   Items: population, area, race, weather, no. of school, output of major products, labor force, unemployment ratio, no. of labor dispute, income level, industrial estate, no. of foreign companies, infrastructure, etc.

2. Development plan of components of Industrial Community such as industrial estate, housing and commercial area, laboratories, recreational area in each region

3. Environmental regulation and law around the proposed regions

4. Regional advantages in developing of Industrial Community

5．質問票Bに対する回答

Cagayan de Oro
DTI Region 10より入手

MAJOR PRODUCTS/OUTPUT OF THE CORRIDOR

INDUSTRIAL PRODUCTS

Chemicals

1.0 Formaldehyde, adhesives
1.1 Coco-chemicals
1.2 Calcium carbide, alloy,acct. black
1.3 PVC Pipes, tubes and fittings
1.4 Industrial & Medical Gases
1.5 Activated Carbon
1.6 Refined glycerine
1.7 Coco-tertiary amines
1.8 Fatty alcohol

Construction/Construction Materials

1.1. Portland & Pozzolan Cement
1.2 G. I. Sheets, colored roofing materials
1.3 Plywood/veneer
1.4 Laminated board
1.5 Concrete aggregates
1.6 Refractories, ceramic raw materials
1.7 Lumber products
1.8 Builders' Woodworks
1.9 Grinding Balls

Mining/Metallurgical

1.0 Steel Sheets, tinplates,billets
1.3 Ferrochrome/ferro-alloys
1.4 Silico chrome,silico manganese
1.8 Sintered iron ore
2.7 Chromite briquettes & concentrates
1.5 Gold Ore Processing
1.6 Steel Drum Containers

Processed Food

1.0 Canned pineapples
1.1 Beverages (coffee,choco ,softdrinks, juices, alcoholic bev.)
1.2 Biscuits
1.3. Banana Chips
1.4 Dairy Products
1.5 Fresh & Frozen Prawns
1.6 Processed Fruits
1.7 Processed Meat
1.8 Noodles
1.9 Tomato paste/tomato sauce

Consumer Products

1.0 Refined & crude coco oil
1.1 Kraft paper/paper/pulp
1.2 Copra meal & pellets
1.3 Cassava starch

COMPANIES WITH FOREIGN EQUITY

NAME OF FIRM	FOREIGN EQUITY	ACTIVITY/PRODUCT
PROCESSED FOOD		
1. Del Monte Philippines, Inc.	American	Canned pineapples, canned tropical fruits
2. Nestle Philippines, Inc.	Swiss	beverages,noodles
3. Bukidnon Resources Co., Inc.	American	tomato paste
CHEMICALS		
1. Pilipinas Kao, Inc.	Japanese	Coco-chemicals
2. First Industrial Plastics, Inc.	Japanese	Plastic connectors
STEEL & METAL PRODUCTS		
1. National Steel Corporation	Malaysian	Steel sheets/bars/ billets
MINING/METALLURGICAL		
1. Philippine Sinter Corporation	Japanese	Sintered iron ore
2. Ferrochrome Philippines, Inc.	Virgin Islands	Ferrochrome
3. Inegrated Chrome	Japanese	Chromite ore
4. Asian Park Dev't. Industries	South Korean	gold
CONSTRUCTION MATERIALS		
1. Alsons Cement Corporation	Japanese, Swiss	Cement
2. Iligan Cement Corporation	Japanese	cement
3. Limuir, Inc.	British	conservatories
4. Refractories Corporation of the Philippines	Japanese	refractory bricks
CONSUMER PRODUCTS		
1. Valencia Rubbertex	Japanese	Rubber boots, working shoes
2. Nine Four International	Japanese	Wooden toys
3. Glema Stoneware & Ceramic Crafts	German	Ceramic products
4. Daiso Industrial Co., Inc.	Japanese	Wooden Frames
5. North LB Manufacturing Corp.	Japanese	Chopsticks
AGRI-BASED		
1. Orida Philippines, Inc.	South Korean	cattle feeds

COMPANIES WITH FOREIGN EQUITY

NAME OF FIRM	FOREIGN EQUITY	ACTIVITY/PRODUCT
POWER GENERATION		
1. Mindanao Energy Systems, Inc.	Malaysia, Dutch	Power
2. Northern Mindanao Power Corporation	Japanese	Power
YACHT		
1. Moke Global Cruising Yachts	Australian	Yachts

NUMBER OF LABOR DISPUTES
Region 10

Voluntary Arbitration Cases	
Pending cases	5
New Cases filed	9
Total cases monitored	14
Total cases disposed	9
Total Cases decided	7
Cases decided amicably	1
Total Cases Withdrawn	1

Source : National Concilitation Arbitration Cases

DEVELOPMENT PLAN OF COMPONENTS OF INDUSTRIAL COMMUNITY

1. Industrial Estate

> Subdivision of PIE-MO into five Industrial Parks
> Target Industry Mix : metal-based,wood-based,food-based,chemical-based and other industry types

Commercial

> 28 hectares to be allocated for commercial use

Residential

> A total of 9,000 dwelling units covering 160 has. are proposed comprising a mix of good, middle class & low-cost

2. Facilities

Educational

A total of 4 kindergarten schools, 5 elementary schools, 3 high schools and one vocational institute.

Sports and Recreation

Swimming Pool, sports complex and indoor stadium are proposed.
Town garden of 2 has. to be located in the proposed town center.

Others

Hospitals, bus interchange,substations, cimmunity centers,library, fire and police station, rural health units to be provided in Casinglot and Sta. Ana.

Two petrol station of 1 ha, each to be provided in industrial area and along primary access roads.

UTILITIES

> Proposed dike along the Tagoloan river (DPWH Plan)
> Upgrading of existing roads
> Proposed power plants
> Additional power lines
> Sewage treatment Plants

OPEN SPACE

> Green buffers to separate residential and industrial areas from each other on both sides of major roads to create a park-like image of the estate .

RESETTLEMENTS

> Proposed social housing package :

>> Physical development of relocation sites
>> Building of homes & community facilities

ENVIRONMENTAL REGULATION

1. Environmental Compliance Certificate
(see attached)

REGIONAL ADVANTAGES IN DEVELOPING OF INDUSTRIAL COMMUNITY

1. Employment Generation
2. Development of ancillary industries
3. Technology Transfer/ transfer of skills
4. Entry of foreign direct investments

Source : CESMA Masterplan

ONE STOP INVESTMENT ACTION CENTER (OSIAC)

Cagayan de Oro City

Name of Agency/Institution: Department of Environment and Natural Resources (DENR)

Type of Investor Serviced: o Domestic o Foreign

POLICIES AND PROCEDURES ON LICENSING/REGISTRATION OF BUSINESSES

BUSINESS CLASSIFICATION	CLEARANCES/ PERMITS/ REQUIRED	REASON FOR CLEARANCE/ PERMIT/LICENSE	PROCEDURES	TIME FRAME	NOTE/REMARKS
I. HEAVY INDUSTRIES	1. Environmental	1. P.D. 1586 &	1. Accomplish Environmental Impact	1. All ECC application submit-	1. All projects under EIS
1. Non Ferrous metal industries	Compliance	P.D. 1121	Statement (EIS) Outline with the	ting to the EIA Division	shall be evaluated by
eg. Ferrochrome	Certificate	D.A.O. No. 21	following attachments:	shall be pre-evaluated	a Review Committee
2. Iron and Steel Mills	(ECC)		a. Zoning Viability from HLURB/DZA	and endorsed to the	and the EIA Division
eg. Jacinto Integrated Steel Mills			b. Endorsement from LGU	Environmental Managemt.	of the EMB, Manila.
3. Petroleum and Petrochemical Ind.		2. P.D. 984 and	c. Pictures of Project Site and vicini-	Bureau (EMB), Manila	
eg. Petron Oil Refinery		DENR Rules	ties	and to be acted upon	ECC to be approved
4. Smelting and Sintering Plants		and	d. Location/Vicinity Map	within 30 days.	by the DENR
eg. Phil. Sinter Corporation		Regulations	e. Plant/Equipment Layout	(Section 2.0-22.3 of	Secretary
5. Distilleries/Breweries			f. Site Evaluation Report	DAO # 21)	
eg. Asia Brewery			g. Profile of the Person who prepared		
6. Refineries			the document with statement		
eg. Cagayan de Oro Oil Refinery			of accountability.		
7. Cheminal Industries			h. Topographic Maps		
eg. Mabuhay Vinyl			i. Maps showing sampling sites when		
8. Fermentation Plants			gathering baseline data or doing		
eg. Asian Alcohol			Resources Basic Inventory (RBI)		
9. Pulp and Paper Mills			j. Perception survey with map		
eg. Menzi and PICOP			showing household survey		
10. Incinerators			k. Result of Public Hearing for		
eg. Solid Waster Incinerator			social Acceptance.		
11. Cement Plants					
eg. Alson's Cement	2. Authority to		2. Accomplished Authority to Construct	2. Authority to Construct shall	2. - evaluated by EQD
	Construct		form with instruction/attachment at	be acted within	- recommented by
			the back of the form.	15 days upon receipt	Regional Technical
					Dir.r-Environment

Name of Agency/Institution: Department of Environment and Natural Resources (DENR)

Type of Investor Serviced: o Domestic o Foreign

POLICIES AND PROCEDURES ON LICENSING/REGISTRATION OF BUSINESSES

BUSINESS CLASSIFICATION	CLEARANCES/ PERMITS/ REQUIRED	REASON FOR CLEARANCE/ PERMIT/LICENSE	PROCEDURES	TIME FRAME	NOTE/REMARKS
					- approved by DENR Regl. Exec. Dir.
	3. Permit to Operate		3. Accomplish Permit to Operate form with attached: a. Designation of PCO b. Certificate of Completion.\	3. Permit to Operate shall be acted upon within 15 days upon receipt.	3. -do-
II. RESOURCE EXTRACTIVE INDUSTRIES					
1. Major Mining & Quarrying Proj. eg. Manila Mining	1. Environmental Compliance Certificate (ECC)	1. P.D. 1586 & P.D. 1121 D.A.O. No. 21	- same as No. 1 above -	- same as No. 1 above -	- same as No. 1 above -
2. Foresting Projects eg. CATIMCO, Logging, Sawmills					
3. Dikes for/and Fishpond Development Projects eg. Reclamation Projects					
III. INFRASTRUCTURE PROJECTS					
1. Major Dams eg. Water Impounding Structures with storage volume equal to or exceeding 20 m cu.m.	1. Environmental Compliance Certificate (ECC)	1. P.D. 1586 & P.D. 1121 D.A.O. No. 21	- same as No. 1 above -	- same as No. 1 above -	- same as No. 1 above -
2. Major PowerPlants eg. NAPOCOR					
3. Major Reclamation Projects eg. Reclamation areas equal to or exceeding more than 1 ha.					
4. Major Roads and Bridges					

Name of Agency/Institution: Department of Environment and Natural Resources (DENR)					
Type of Investor Serviced: o Domestic o Foreign					
POLICIES AND PROCEDURES ON LICENSING/REGISTRATION OF BUSINESSES					
BUSINESS CLASSIFICATION	CLEARANCES/ PERMITS/ REQUIRED	REASON FOR CLEARANCE/ PERMIT/LICENSE	PROCEDURES	TIME FRAME	NOTE/REMARKS
IV. OTHER INDUSTRIES/PROJECTS NOT INCLUDED IN I, II, III.					
A. INDUSTRIES eg. - Rice and Corn Mills - Piggery and Poultry - Mini-Sawmill - Food/Beverage Industries	1. Environmental Compliance Certificate (ECC)	1. P.D. 1586 & P.D. 1121 D.A.O. No. 21	1. Accomplish Project Description (PD) Outline with the ff. attachments: a. Location Clearance b. LGU Social Acceptability c. Pictures of Sites & Vicinities d. Original of Transfer Certificate of Title (OCT/TCT) e. Vicinity/location sketch/ topographic maps f. Site Evaluation Report g. Certificate of Accountability	1. All ECC application submitting to the EIA Division shall be pre-evaluated and endorsed to the Environmental Managemt. Bureau (EMB), Manila and to be acted upon within 30 days. (Section 2.0-22.3 of DAO #21)	1. All industries/projects under Project Description (PD) shall be: - evaluated by EIA Division - recommended by Regl. Tech. Dir. - approved by Regl. Exec. Dir.
	2. Authority to Construct	2. P.D. 984 and DENR Rules and Regulations	2. Accomplished Authority to Construct form with instruction/attachment at the back of the form.	2. Authority to Construct shall be acted within 15 days upon receipt.	
	3. Permit to Operate		3. Accomplish Permit to Operate form with attached: a. Designation of PCO b. Certificate of Completion	3. Permit to Operate shall be acted upon within 15 days upon receipt.	
B. PROJECTS eg. - Sand & Gravel Extraction of less than 1 hectare - Small Scale Mining of less than 20 hectares - Sub Division / Land Conversion	1. Environmental Compliance Certificate (ECC)	1. P.D. 1586 & P.D. 1121 D.A.O. No. 21	- same as above -	- same as above -	- same as above -

JICA