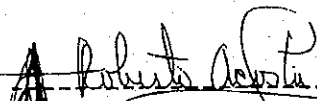
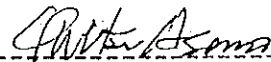


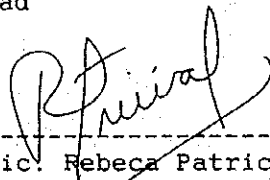
2. Scope of Work

SCOPE OF WORK  
FOR  
THE TEGUCIGALPA URBAN TRANSPORT STUDY  
AGREED UPON BETWEEN  
TEGUCIGALPA MUNICIPALITY OF THE CENTRAL DISTRICT  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY

Tegucigalpa, November 30, 1994

  
-----  
Lic. Oscar R. Acosta Zepeda  
Alcalde Municipal Del  
Distrito Central  
Tegucigalpa Ciudad

  
-----  
Dr. Mitsuyuki Asano  
Leader  
Preparatory Study Team  
Japan International  
Cooperation Agency

  
-----  
Lic. Rebeca Patricia Santos  
Vice Minister  
Ministry of Planning, Coordination  
and Budget

## 1. Introduction

In response to the request of the Government of the Republic of Honduras (hereinafter referred to as "GRH"), the Government of Japan (hereinafter referred to as "GOJ") has decided to conduct the Tegucigalpa Urban Transport Study (hereinafter referred to as "The Study") in accordance with the relevant laws and regulations in force in Japan.

Accordingly, the Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of technical cooperation programs of GOJ, will undertake the Study in close cooperation with the authorities concerned of GRH.

The present document set forth the scope of work with regard to the Study.

## 2. Objectives of the Study

The objectives of the Study are to undertake the following studies and to formulate a Master Plan for the Urban Transport System in the Tegucigalpa Metropolitan region up to the year 2010:

- (1) Collection of the data on the existing transport sector and road conditions by conducting field surveys
- (2) Review and evaluation of the on-going and/or proposed projects and programs, and if necessary, preparation of a recommendation of a program to be urgently implemented.
- (3) Formulation of a Master Plan up to the year 2010 for the transport network.
- (4) Formulation of short/medium/long-term investment plans and programs for the road transport network.
- (5) Technology transfer to the Honduras counterparts during the study.

## 3. Study Area

The Study area will cover the Tegucigalpa Metropolitan region.

#### 4. Scope of the Study

The Study will be divided into three stages, together comprising 18 months. The scope of the Study will cover the following tasks:

##### 4.1. First Stage: Review, analysis, and evaluation of the existing transport condition

(1) Collection and analysis of the relevant data and information

- Socio-economic indices
- Employment and labor forces
- Land use maps and its related information
- Road network and road facilities
- Transport and traffic demand
- Transport administration
- Legislation and laws
- Other relevant data

(2) Review and analysis of the existing transport study data

(3) Review of the existing master plans and determination of a future development plan to be considered.

(4) Person trip survey

- Home interview origin and destination survey
- Cordon line traffic count survey
- Screen line traffic count survey

(5) Supplemental surveys

- Traffic count surveys on selected points of arterial roads and intersections
- Survey on the public transport systems and their passenger
- Supply and demand survey on parking spaces
- Road inventory and condition survey, and surveys on running speed
- Traffic signs and markings

(6) Evaluation of the existing roads and traffic conditions, and analysis of the traffic capacity

(7) Review and evaluation of the short-term road transport projects and plans

(8) Initial environmental examination

4.2. Second Stage: Formulation of a Transport Master Plan

- (1) Formulation of development scenarios and evaluation
- (2) Development of methodologies and transport demand forecasting
  - Methodologies for transport demand forecasting, and those for analysis and evaluation of land use plans and transport strategies
  - Future transport demand forecasting
- (3) Review of strategies for transport development
  - Modal splits between public and private transport systems
  - Existing and future arterial road network including a ring road
  - Roles among public transport system
  - Demand control and toll setting methodologies
- (4) Formulation of an urban transport Master Plan and recommendation
  - Frame work of urban transport development policy
  - Comprehensive arterial road network
  - Parking space by type of vehicle
  - Transport administration
  - Improvement of public transport network system and management plans
  - Road transport management plans
- (5) Selection of priority projects and recommendation
- (6) Review of the existing implementing agencies for urban transport master planning, and recommendation

4.3. Third Stage: Formulation of an investment plan

- (1) Preparation of a project list and its evaluation (including a preliminary plan and cost estimates)
- (2) Economic evaluation and prioritization
- (3) Formulation of an investment plan
  - Medium/long-term investment plans covering a project description, financing terms, an implementation schedule, and the relation with other projects
  - Short-term priority projects and their investment plans
  - A five-year plan (including an implementation schedule)

- Recommendation

5. Study Schedule

The Study will be carried out in accordance with the attached tentative schedule (Appendix).

6. Reports

JICA shall prepare and submit the following reports to GRH.

(1) Inception Report

Ten (10) copies in English and forty (40) copies in Spanish at the beginning of the Study.

(2) Progress Report

Ten (10) copies in English and forty (40) copies in Spanish within 5 months after the beginning of the Study.

(3) Interim Report

Ten (10) copies in English and forty (40) copies in Spanish within 10 months after the beginning of the Study.

(4) Draft Final Report

Ten (10) copies in English and forty (40) copies in Spanish within 15 months after the beginning of the Study.

(5) Final Report

Twenty (20) copies in English and forty (40) copies in Spanish within 2 months after the receipt of the written comments on the Draft Final Report from GRH.

7. Undertaking of the Government of the Republic of Honduras

7.1. GRH shall facilitate carrying out of the Study in accordance with the prevailing laws and regulations stipulated by GRH, as follows:

- (1) to secure the safety of the Japanese study team
- (2) to permit the members of the Japanese study team to enter, leave and stay in Honduras for the duration of

their assignment therein, and exempt them from foreign registration requirements and consular fees;

- (3) to exempt the members of the Japanese study team from taxes, duties, fees and other charges on equipment, machinery and other materials brought into Honduras for the conduct of the study;
- (4) to exempt the members of the Japanese study team from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to members of the Japanese study team for their services in connection with the implementation of the Study;
- (5) to provide necessary facilities to the Japanese study team for remittance as well as utilization of the funds introduced into Honduras from Japan in connection with the implementation of the Study;
- (6) to secure permission for entry into private properties or restricted areas for implementation of the Study;
- (7) to secure permission for the Japanese study team to take out all data and documents including maps and photographs related to the Study out of Honduras to Japan; and
- (8) to provide medical services as needed. Its expenses will be chargeable on the members of the Japanese study team.

7.2. GRH shall bear claims, if any arises, against the members of the Japanese study team resulting from, occurring in the course of, or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the Japanese study team.

7.3. The Urban Planning Bureau of the Tegucigalpa Municipality of the Central District (hereinafter referred to as "METROPLAN") shall act as a counterpart agency to the Japanese study team and also as a coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.

7.4. METROPLAN shall, at its own expense, provide the Japanese study team with the following, in cooperation with other organizations concerned:

- (1) available data, information and maps related to the Study;

- (2) counterpart personnel
- (3) suitable office space with necessary furniture and equipment in Tegucigalpa; and
- (4) credentials or identification cards

#### 8. Undertaking of JICA

For the implementation of the Study, JICA shall take the following measures:

- (1) to dispatch, at its own expense, the Study team to Honduras
- (2) to provide a necessary number of vehicles; and
- (3) to pursue technology transfer to the Honduras counterpart personnel in the course of the Study and seminars.

#### 9. Others

JICA and METROPLAN shall consult with each other in respect of any matter that may arise from or in connection with the Study.

TENTATIVE SCHEDULE OF THE STUDY

Appendix 1

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
WORK IN HONDURAS																		
WORK IN JAPAN																		
REPORTS	△				△				△						△	△		
	IC/R				P/R				IT/R						DF/R	F/R		

Legend

- IC/R : Inception Report
- P/R : Progress Report
- IT/R : Interim Report
- DF/R : Draft Final Report
- F/R : Final Report

*CRD*

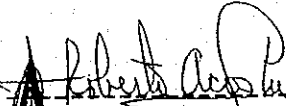
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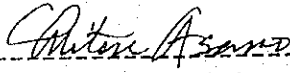


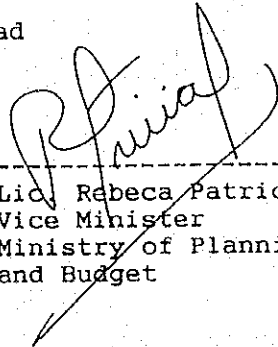
3. Minutes of Meeting

MINUTES OF MEETING  
ON  
SCOPE OF WORK  
FOR  
THE TEGUCIGALPA URBAN TRANSPORT STUDY  
AGREED UPON BETWEEN  
TEGUCIGALPA MUNICIPALITY OF THE CENTRAL DISTRICT  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY

Tegucigalpa, November 30, 1994

  
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Mr. Oscar R. Acosta Zepeda  
Alcalde Municipal Del  
Distrito Central  
Tegucigalpa Ciudad

  
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Dr. Mitsuyuki Asano  
Leader  
Preparatory Study Team  
Japan International  
Cooperation Agency

  
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Lic. Rebeca Patricia Santos  
Vice Minister  
Ministry of Planning, Coordination  
and Budget

The Japanese Preparatory Study Team, organized by Japan International Cooperation Agency (JICA), and headed by Dr. Mitsuyuki Asano visited the Republic of Honduras from November 21 to December 1, 1994 for the purpose of discussing the Scope of Work for "The Tegucigalpa Urban Transport Study (hereinafter referred to as "the Study").

The Study team exchanged views and had a series of discussions with representative of Alcaldia Municipal del Distrito Central (METROPLAN) listed in Annex 1. The Minutes of Meeting records the major understandings reached. The team is grateful for the hospitality and cooperation extended to it.

1. It was agreed that the title of the Study would be renamed as "The Tegucigalpa Urban Transport Study" in order that it would more appropriately describe and reflect the scope of work to be undertaken.
2. METROPLAN proposed that three local counterparts would be invited to Japan for training in the relevant fields of this Study. The Study team agreed that this message would be conveyed to the management of the JICA headquarter in Tokyo.
3. It was agreed that the Initial Environmental Examination would be limited to the projects or programs which would be identified through the first stage study. This examination would be carried out taking into account both JICA Guidelines and the Honduras Environmental General Laws.
4. The number of copies of a report to be prepared by the Study team would be ten (10) copies in English and forty (40) copies in Spanish regarding Inception, Progress, Interim, and Draft Final reports. However, a Final report would be prepared in twenty (20) copies in English and in forty (40) copies in Spanish.
5. METROPLAN would, at its own expense, provide suitable office space with necessary furniture and equipment for the Study team. However, JICA would, at its own expense, prepare a copying machine, a necessary number of computers, a telephone, a facsimile, and an air conditioner for an office.
6. METROPLAN has a difficulty to provide a necessary number of service vehicles for the Study team. It was agreed that the Study team would, at its own expense, prepare their own transportation.
7. Both parties, METROPLAN and the Study team agreed that a steering committee being composed of members of Comite Vial, headed by a Mayor would be organized to supervise local counterparts.

8. The Scope of Work and the Minutes of Meeting were prepared in both English and Spanish. In case of any divergence arising from the interpretation of the documents above-mentioned, English shall prevail.



CRA



List of Participants

Tegucigalpa Municipal Office (AMDC)

- Mr. Oscar R. Acosta, Mayor
- Ms. Celina Montes, Regidor
- Mr. Carmen L. Flores, Regidor
- Mr. Norman Zuniga, Gerente Metroplan
- Mr. Joaquin Guardado, Manager of Public Works Division
- Mr. Dalmiro Caballero, Regidor
- Mr. Lizandro Calderon, Traffic Engineering
- Mr. Angel O. Andrade, Secretario, Comité Vial
- Mr. Rodolfo Delced, Fiscal, Comité Vial
- Mr. Jose Armando Andino, Vocal, Comité Vial

Japanese Embassy

- Mr. Haruyoshi Miura, First Secretary

JICA Honduras Office

- Mr. Takeshi Nagase, Director General
- Mr. Yoshikazu Koike, Deputy Director General

JICA Study Team

- Dr. Mitsuyuki Asano, Team Leader/Urban Planning
- Mr. Daisaku Murakami, Public Transport Planning
- Mr. Kazufumi Shiii, Coordination
- Mr. Yasuhiro Kawabata, Transport/Road Equipment
- Mr. Motoyasu Nakajima, Environment
- Mr. Kenichi Tabiki, Interpreter

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4. Questionnaire

THE JICA PREPARATORY STUDY TEAM  
for  
THE TEGUCIGALPA URBAN TRANSPORT STUDY

QUESTIONNAIRE

November, 1994

JAPAN INTERNATIONAL COOPERATION AGENCY

I. ORGANIZATIONS CONCERNING THE IMPLEMENTATION OF THE STUDY

I T E M	D E S C R I P T I O N	A V A I L A B I L I T Y		T I T L E O F D O C U M E N T S
		Availibility	Source	
<p>1. Agencies which are responsible for the following:                      (A) Road development planning                      (B) Road construction                      (C) Road improvement/betterment                      (D) Road maintenance/management</p> <p>2. Agencies which are responsible for the public transport:                      (A) Planning                      (B) Management</p> <p>3. Agencies which are responsible for traffic control and regulations:</p> <p>4. Agencies in charge of and/or concerned with the following:                      (A) Permission of aerial photo taking                      (B) Custody of topographic maps and aerial photos                      (C) Aero conservation                      (D) Geological data/information                      (E) Meteorological analysis</p> <p>5. Organization to supervise and steer the management of the Study</p>	<p>(1) For the National roads                      (2) For the Provincial roads                      (3) For the toll roads</p> <p>(1) Name of Agencies and Departments                      (2) Name and position of the responsible persons in charge for the Japanese Study Team to contact                      (3) Organization and Staffing</p> <p>(1) Name of Agencies and Departments                      (2) Name and position of the responsible persons in charge for the Japanese Study Team to contract                      (3) Organization and Staffing</p> <p>(1) Name of Agencies and Departments                      (2) Name and position of the responsible persons in charge for the Japanese Study Team to contract</p> <p>(1) Necessity of the Steering Committee and proposed member institutions</p>	<p>Main roads                      Secondary roads                      Vecinal roads</p> <p>SECOPT                      SECOPT/AMDC (in Tegucigalpa)                      SECOPT/City</p> <p>SECOPT (at National level)                      Ing. Lila Ucles, Director, General Transport Dept.                      AMDC/Comite Vial (in Tegucigalpa)</p> <p>Ing. Joaguin Guardado, Public Works Division</p> <p>National Transit Direction                      Mr. Rodolfo E. Inheriano Portillo, Director</p> <p>IGN/Direccion General de Aeronautica Civil                      IGN/AMDC (Catastro Municipal)                      IGN/AMDC (Catastro Municipal)                      Ministry of Natural Resources/Consulting firms                      Ministry of Natural Resources/Direccion General de Aeronautica</p> <p>Comite Vial (SECLAN, SECOPT, Police, Fire Dept. AMDC, etc.)</p>		
<p>Note: SECOPT: Secretaria de Comunicaciones Obras Publicas y Transporte                      AMDC : Alcaldia Municipal del Distrito Central                      IGN : Institute Geografico Nacional</p>				

II. SOCIO-ECONOMIC DATA/INFORMATION

I T E M	DESCRIPTION	AVAILABILITY		TITLE OF DOCUMENTS
		Availability	Source	
1. Latest socio-economic indices	(1) GNP and GDP (2) Population and labor forces (3) Past and future population growth rate (4) Industrial, agricultural and mining products (by main sort) (5) Consumer price index (6) Foreign exchange rate (7) Foreign trade (quantity and value) (8) Tourism development plans (9) Others	A A A A A A N/A N/A N/A	SECPAN/BCH/ // // // // // //	MOE
2. Existing development plans and reports	(1) Economic development plans (2) National Land and development plans (3) Transportation development plans (4) Industrial development plans (5) Mining and agricultural development plans (6) Forecast of socio-economic indicators	N/A N/A N/A N/A N/A N/A		
3. Existing and on-going road development plans and road development projects	(1) Design, implementation schedule and current project status	A	SECOPT/AMDC	

Note: SECPAN: Ministry of Planning, Coordination, and Budget

BCH : Central Bank of Honduras

MOE : Ministry of Economics

A : Available

N/A : Not Available

III. TECHNICAL DATA/INFORMATION

I T E M	D E S C R I P T I O N	A V A I L A B I L I T Y		T I T L E O F D O C U M E N T S
		Availibility	Source	
1. Maps to be used for reconnaissance	(1) Topographic maps covering the Study area (of smaller scale)	A	IGN	S=1/10,000
2. Availability of aerial photos and topographic maps	(1) Aerial photos (1/5,000) (2) Topographic maps (1/2,000), etc.	A A	IGN IGN	1990 S=1/10,000 4M contour
3. Geological data	(1) Geological maps covering the Study area (2) Existing report on such data/ information as: - Location of soft ground - Results of geological/soil investigation	A A	IGN IGN	S=1/50,000
4. Geodetic data	(1) Triangulation point network (2) Bench-mark network (3) Points description (Control points, Bench-mark) (4) Triangulation point data lists	A A A A	IGN IGN IGN IGN	



I T E M	DESCRIPTION	AVAILABILITY		TITLE OF DOCUMENTS
		Availability	Source	
5. Meteorological data	(1) Monthly rainfall data (hourly and daily rainfall data, if possible) (2) Temperature (3) Others (wind direction and velocity)	A A A	Natural Resources Ministry Water Resources Bureau	
6. Hydrological data of rivers		A		
7. Transport Demand and Modal Split Trends	(1) Road, Railway, Air, Ocean and Marine	A	SECOPT General Transport Dept.	
8. Data/information on related roads in the Study area	(1) Road maps (2) Road and bridge inventories (class, length, surface type, etc.) (3) Record of past disaster (Flood, slope, failure, etc.)	A A	AMDC AMDC	
9. Traffic survey system	(1) Location of periodic traffic count stations in the Study area (2) Period (ex. once a year, seasonal, etc.)	A	Natural Resources Ministry SECOPT/AMDC/ Consulting firms	

I T E M	D E S C R I P T I O N	A V A I L A B I L I T Y		T I T L E O F D O C U M E N T S
		A v a i l a b i l i t y	S o u r c e	
10. Traffic data on the related roads	(1) Traffic volume by vehicle types (2) Number of registered vehicles (3) Record of traffic accidents (type, causes, location, etc.) (4) Price of fuel	A A A	National/Transit Direction // //	
11. Land use plans and maps	(1) Land use plans (2) land use control (3) Urban development plan	A A N/A	AMDC AMDC 1974 Edition only	
12. Specifications and standard	(1) Highway capacity manual (2) Geometric standards (3) Bridge standards (4) Pavement standards (5) Environmental quality standards (6) Maintenance manual (7) Others	A A A A A A	SECOPT SECOPT SECOPT SECOPT Ministry of SECOPT/AMDC	Basically, American Standards  Environment
13. Transportation Network Map	(1) Network maps and capacity of national transport system road, railways, commercial flights, public (2) Traffic Flow data and forecasts of cargo/passengers by each mode (3) Transportation cost of each mode (by type of vehicle) (4) Development/improvement policies (5) Related materials, if any (national transportation studies, etc.)	A A N/A A A	SECOPT SECOPT SECOPT SECOPT	

I T E M	DESCRIPTION	AVAILABILITY		TITLE OF DOCUMENTS
		Availability	Source	
14. Reports/information of the road development projects closely related to the Study	(1) Intersection improvement plan (2) Widening plan for major road (3) Bridge plan - New construction - Reconstruction	A A A	SECOPT(General Highway Bureau) SECOPT SECOPT	
15. Road related budget	(1) Road construction budget (2) Road maintenance budget	A A	SECOPT/AMDC SECOPT/AMDC	
16. Road related cost	(1) Construction cost by type of road and location (2) Maintenance cost by type of road and location	A A	SECOPT/AMDC SECOPT/AMDC	
17. Operation and management of transport sector (bus, trucking, and taxi)	(1) The organization of the transport sector, including profile of ownership, company structure and management; (2) The framework of economic regulations, transport regulations and technical regulations including licensing for carriage of passengers, price setting, road user taxation, regulations on import and technical specifications of vehicles and enforcement of road traffic laws and regulations; (3) The demand for transport up to the year 2000, including its seasonal, geographical and travel purpose characteristics.	A  N/A	Private Companies/Urban Transport Association  SECOPT(General Transport Dept.) Public Credit & Budget Ministry National Transit Direction	

I T E M	DESCRIPTION	AVAILABILITY		TITLE OF DOCUMENTS
		Availability	Source	
	(4) The operations of the transport, including marketing, transport terminals, fleet characteristics and utilization, maintenance and repairs, cost and pricing of bus services.	N/A		
18. Traffic control regulations and laws	(1) Relevant traffic regulations and laws applicable to the Study (2) Legal system	A	SECOPT - Transit General Law and its Regulations - On-Land Transport Law (Decree No.319)	
19. Bus network and routing maps		A	SECOPT (General Transport Dept.)	
20. Operation of traffic signals	(1) Signaling systems and location (2) Agency responsible for operation and maintenance (3) Organization of the above agency and staffing	A SECOPT/AMDC	SECOPT/AMDC	
21. Parking facilities	(1) Existing facilities and future plans	A	METROPLAN/COMITE VIAL	

IV. ENVIRONMENTAL ISSUES

I T E M	D E S C R I P T I O N	A V A I L A B I L I T Y		T I T L E O F D O C U M E N T S
		Availability	Source	
1. Legislation	(1) Law/guidelines on environmental impact assessment (2) Environmental Quality standards	A Not established	Ministry of Environment	Environment
2. International conventions on environmental conservation	(1) Bilateral convention (2) Multilateral convention	A A	JICA Guidelines	
3. Present situation of the project area	(1) Socio-economic environment <ul style="list-style-type: none"> <li>. Number of people to be resettled and plans of resettlement or compensation</li> <li>. Main industry or source of income of the residents</li> <li>. Number and distribution of schools, hospitals, religious facilities</li> <li>. Cultural property or archaeological sites</li> <li>. Use of river/lake water, i.s. domestic industrial and agricultural</li> <li>. Existence of common land</li> <li>. Present situations of water rights, fishery rights and rights of common.</li> </ul>	N/A  A A A A N/A Not confirmed	METROPLAN METROPLAN SECOPT Ministry of Culture SECOPT	Culture

I T E M	DESCRIPTION	AVAILABILITY		TITLE OF DOCUMENTS
		Availability	Source	
	<p>(2) Natural environment</p> <ul style="list-style-type: none"> <li>. Availability of meteorological data</li> <li>. Availability of land use and vegetation map</li> <li>. History of natural disaster, landslide earthquake and flood</li> <li>. Areas affected by soil erosion</li> <li>. Change of water level of rivers and lakes in recent years</li> <li>. Location of environmentally vulnerable areas such as wet land</li> <li>. Species of valuable animals and plants living in the project area</li> <li>. Location of particular areas officially protected such as national parks</li> <li>. Distribution of important landscape or scenery for tourism</li> </ul>	<p>A</p> <p>A</p> <p>N/A</p> <p>N/A</p> <p>A</p> <p>None</p> <p>N/A</p> <p>A</p> <p>A</p>	<p>Water Resources Bureau</p> <p>AMDC Asesoria de</p> <p>Water Resources Bureau</p> <p>AMDC Asesoria de</p> <p>//</p>	<p>Water Resources Bureau</p> <p>Ambiente y Desarrollo</p> <p>Water Resources Bureau</p> <p>Ambiente y Desarrollo</p>

I T E M	D E S C R I P T I O N	A V A I L A B I L I T Y		T I T L E O F D O C U M E N T S
		Availibility	Source	
	<p>(3) Quality of life</p> <ul style="list-style-type: none"> <li>. Present air quality</li> <li>. Regulation on emission gas</li> <li>. Present water quality</li> <li>. Regulation on effluent</li> <li>. Present condition of noise and vibration</li> <li>. Regulation for prevention of noise and vibration</li> <li>. Existance of complaints and problems of exhaust gases, noise and vibrations accompanied with the road traffic.</li> </ul>	<p>Unknown None A A A None None</p>	<p>Water Resources Bureau AMDC</p>	
	<p>(4) Institutions concerned with environment.</p> <p>a) Universities and laboratories.</p> <ul style="list-style-type: none"> <li>. Name</li> <li>. Location</li> <li>. Course, Subject</li> <li>. Analysis facility</li> </ul>	<p>A</p>	<p>AMDC Details not</p>	<p>confirmed</p>

I T E M	D E S C R I P T I O N	A V A I L A B I L I T Y		T I T L E O F D O C U M E N T S
		Availibility	Source	
	b) Investigation company for environment <ul style="list-style-type: none"> <li>. Name</li> <li>. Location</li> <li>. Field of investigation</li> <li>. Scale of company</li> <li>. Results of business</li> <li>. Analysis facilities belonging to a company</li> <li>. Productionrate of investigation (charge for investigation)</li> </ul>	A	Ministry of confirmed	Environment
4. Vehicle inspection system	(1) Agency responsible for inspection (2) Inspection system		National Transit Direction once a year for private cars Twice a year for buses	



V. OTHER INFORMATION

I T E M	DESCRIPTION	AVAILABILITY		TITLE OF DOCUMENTS
		Availability	Source	
1. Future budgetary plan for the implementation of the Project	(1) External financial assistance by international institutions	Not yet	Confirmed	
2. Any specific restrictions related to the Study	(1) List up equipment/instruments/apparatus which are available for the Study by the following category with the following information:	None		
3. Availability of the Government's equipment/instruments/apparatus for the Study	<p>a) Category</p> <ul style="list-style-type: none"> <li>- Instrument for geodetic survey</li> <li>- Apparatus for geological/soil investigation</li> <li>- Apparatus for traffic survey</li> <li>- Computer</li> <li>- Service vehicles</li> <li>- Others</li> </ul> <p>b) Information</p> <ul style="list-style-type: none"> <li>- Name</li> <li>- Type (or model/maker)</li> <li>- Characteristics (or capacity)</li> <li>- Number of units</li> <li>- Condition</li> </ul>	<p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p>		

## 5. 民間コンサルタントの現況

### 6-1 コンサルタント

ホンデュラスの代表的なコンサルタント会社二社の社長に面会し、同国のコンサルタント会社の現況について調査を行なった。

コンサルタント協会 (Chamber of Consultants) の加盟会社数は、現在12社であるが、近々更に 6～7社の加盟が予定されている。12社の内、8社程度が交通セクターをカバーしている。

同国最大手の Cinsa社は従業員数約 300名を有し、同社敷地内に土質試験室、コンピューター図化機も備え、設備的にも、技術能力的にも高いレベルにあるように見受けられた。また、日本のコンサルタントをはじめ外国企業とも共同作業を実施した経験を有し、国際援助機関融資のプロジェクトも数多く手掛けている。

もう一つの有力会社 ICsaの社長は 6年程前まで SECOPTの次官を務めた人が社長となり、交通セクター分野で幅広く活動している。現在、IDB (米州開発銀行) 融資による “Pre-investment Study of Access to the City” を手掛けており、本調査と極めて関連性の高く、その成果完成が待たれる。

両社の聞き取りでは、通常の道路、橋梁設計については、ローカル、コンサルタントだけでこなしており、本格調査で実施予定のパーソントリップ調査についても、問題なく実施が可能と明言している。

環境の分野については、両社ともあまり強くなく、実作業はすべて下請けでその分野の専門家に委託している。

有力コンサルタント会社を列記する。

- C I N S A (社長: Napoleon Bogran Idiaquez)

住 所 : Col. Florencia Norte, No. 4002 Blvd. Suyapa, Tegucigalpa, D.C.

電 話 : 32-3965

- I C S A (社長: Jose Ramiro Zuniga)

住 所 : Boulevard Suyapa 1402 Tegucigalpa, D.C.

電 話 : 39-3342

- C O N A S H (社長: Mayra Tosta Appel)

住 所 : Edificio Maradiaga, 3er Piso, 2Da Ave. 8 Calle, Casa No. 802

Comayaguela

電 話 : 37-2706

- S E I S . A . (社長: Marco A. Salgado)

住 所 : Col. El Prado, Calzada Atitlan No. 1820 Tegucigalpa, D.C.

電 話 : 32-6577

- B I O C O N S U L T (社長: Rafael A. Calderon Carranza)

住 所 : Col. Palmira, Calle Paseo Republica de Argentina No. 436, 2 Do Piso

Tegucigalpa, D.C.

電 話 : 32-4844

6. 収集資料リスト

収集資料リスト (収集調査資料)

平成 年 月 日作成

主管部長	文書管理課長	主管理課長	情報管理課長	技術情報課長

地域	中南米	調査団名又は専門家の氏名	ホンデュラス共和国(事前調査)	調査の種類又は指導科目	事前調査	作成部課	社会開発調査部 社会開発調査第一課
国名	ホンデュラス共和国	配属機関名		現地調査期間又は派遣期間	1994年11月20日～1994年12月3日	担当者氏名	椎井和文

番号	資料の名称	形態	版数	ページ数	オリジナルのコピーの別	部数	収集先名称又は発行機関(寄贈・購入(価格)の別)	取扱区分	利用表示	利用者所属氏名	納入予定日	納入確認
1	Plano General DISTRITO METROPOLITANO (市内一般図)	図	A0		コピー	2	A, M, D, C (市)					
2	TEGUCIGALPA ESCALA 1:10,000 (テグシガルパ 縮尺 1:10,000)	図	A0		オリジナル	4	INSTITUTO GEOGRAFICO NACIONAL (国土地理院)					
3	SECTOR -01 DEL DISTRITO CENTRAL (市内 セクタ-01)	図	A0		コピー	1	METROPLAN					
4	SECTOR -06 DEL DISTRITO CENTRAL (市内 セクタ-06)	図	A0		コピー	1	METROPLAN					
5	MAPA COMERCIAL DE TEGUCIGALPA (テグシガルパ市商店街)	図	A0		オリジナル	1	R, A, PUBLIC (R.A.Aパブリック)					
6	LIMITE DEL DISTRITO CENTRAL (市境界)	図	A1		コピー	1	METROPLAN					
7	PRECIPITACION MENSUAL (月降雨量)	表	A4		オリジナル	3	SECRETARIA DE RECURSOS NATURALES (天然資源省)					
8	CAUDALES MEDIOS DIARIOS (日平均水量)	表	A4	16 13	コピー	2	DIRECCION DE RECURSOS HIDRICOS (水資源総局)					
9	ESTUDIO SOCIO-ECONOMICO ACTUALIZADO SOBRE LA TARIF A DEL TRANSPORTE URBANO DE TEGUCIGALPA (テグシガルパ都市交通料金に関する社会・経済調査の改訂版)	報告書	A4	82	オリジナル	1	METROPLAN					
10	INFORMACION GENERAL ALECA DEL ANILLO PERIFERICO DE TEGUCIGALPA (テグシガルパ環状線についての一般的報告)	報告書	A4	4	コピー	1	SECOPT					
11	テグシガルパ (スケール1:10,000)	図	A0	1	オリジナル	4	国土地理院					

国際協力事業団

図書館提出用

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1.2	LINEAMIENTOS DE POLITICA DE INVERSION PARA EL PROGRAMAD INVERSIONES 1984-1987 (1984-1987年投資計画のための投資政策のガイドライン)	報告書	A4	2	コピー	1	SECP LAN						
1.3	LINIAMIENTOS ESTRATEGICOS DE DESARROLLO 1984-1988 (開発戦略ガイドライン)	報告書	A4	11	コピー	1	SECP LAN						
1.4	MEMORIA 93 (メモリー 93)	報告書	A4	112	オリジナル	1	SECRETARIA DE HACIENDA ICRÉDITE PUBLICO (大蔵・公的信用省)						
1.5	DIAGNOSTICO DEL TRANSPORTE URBANO DE TEGUCIGALPA Y SAN PEDROSULA (テグシガルパ〜サンペドロスーラ都市交通診断)	報告書	A4	68	コピー	1	DIRECCION GENERAL DE TRANSPORTE (運輸総局)						
1.6	LEY DE TRANSPORTE TERRESTRE (陸上輸送法)	報告書	A4	23	コピー	1	THE RESIDENT AMBASSADOR TO HONDURAS (大使館) 及び 大臣許諾会						
1.7	AMDC ORGANIZATION CHART (AMDC組織図)	図				1	A. M. D. C (市)						
1.8	ADMINISTRACION DE RECURSOS HUMANOS (人的資源管理)	表	A4	2	コピー	1	A. M. D. C (市)						
1.9	LISTADO DE SENALES (信号リスト)	報告書	A4	3	コピー	1	METROPLAN						
2.0	SENALES VERTICALES (垂直信号)	報告書	A4	5	コピー	1	DIRECCION NACIONAL DE TRANSITO (交通局)						
2.1	ESTUDIO SOCIO-ECONOMICO ACTUALIZADO SOBRE LA TARIFA DEL TRANSPORTE URBANO DE TEGUCIGALPA (テグシガルパ都市交通に関する社会・経済調査改訂版)	報告書	A4	5	コピー	1							
2.2	TERMINAL CENTRAL UNICA PARA AUTOBUSES INTERURBANOS QUE SIRVAN A LA CAPITAL DE HONDURAS (ホンデュラス首都への都市間バス中央ターミナル)	報告書	A4	2	コピー	1	A. M. D. C (市)						
2.3	TERMINALES DE AUTOBUSES INTERURBANOS (都市間バスターミナル)	報告書	A4	3	コピー	1							
2.4	ORGANIGRAMA COMITE VIAL (交通委員会組織図)	表	A4	1	コピー	2							
2.5	PROGRAMA ECOLOGICO EN CENTROCIERICA (中米における生態系プログラム)	ニュース	A4	12, 12, 12, 16	オリジナル	5	PROECO (プロエコ)						

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26	BORRADOR DEL INFORME FINAL DISEÑO DE CAMINOS DE ACCESO DE TEGUCIGALPA (ファイナルレポートドラフト・テグシガルパ市アクセス道路の設計)	報告書	A4		18	コピー	1	SECRETARIA DE COMUNICACIONES Y TRANSPORTES (コンサルタン)						
27	SUPERVISION DE PROYECTOS DE CONSERVACION DE CARRETERAS (道路保全プロジェクトの指導)	報告書	A4		104	コピー	1	CINSA (コンサルタン)						
28	GEOLOGIA HONDURAS (ホンデュラス地質学)	図	A1			オリジナル	1	INSTITUTO GEOGRAFICO NACIONAL (国土地理院)						
29	INDICE DE PRECIOS AL FORMAYOR (卸売価格)	報告書	A4		10	コピー	1	BANCO CENTRAL DE HONDURAS (中央銀行)						
30	INGRESOS TRIBUTARIOS DEL GOBIERNO CENTRAL (中央政府税収)	報告書	A4		113	オリジナル	1	〃						
31	EVALUACION DE IMPACTO AMBIENTAL CAWETERA LA UNION -MAVE (環境評価ラ・ウニオン・ママメ間道路)	報告書	A4		101	コピー	1	SECRETARIA DE COMUNICACIONES Y TRANSPORTES (通信公共事業運輸省)						
32	MANUAL DE IMPACTOS AMBIENTALES PARA CAMINOS RURALES (地方道路用環境インパクトマニュアル)	7-37#	A4		98	コピー	1	SECOPT						
33	INFORME SOBRE LAS MEDIDAS DE MITIGACION PARA LOS IMPACTOS AMBIENTALES (環境インパクトの緩和方法に関する報告)	報告書	A4		89	コピー	1	CINSA (コンサル)						
34	INFORME DE CIJRA EXPLORATORIA DE MICROCUCENCAS (小盆地調査旅行報告)	報告書	A4		12	コピー	1	SECOPT						
35	PARAMETROS FISICO-QUIMICOS (物理-科学パラメーター)	報告書	A4		26	コピー	1							
36	PLAN MAESTRO VIAL (道路マスタープラン)	報告書	A4		75	コピー	1	SECOPT						
37	FOLLETO INFORMATIVO SOBRE EL SISTEMA NACIONAL DE EVALUACION AMBIENTAL (国内環境評価方法に関するパンフレット)	パンフレット				オリジナル	1	SEDA (環境省)						
38	HONDURAS EN CITRAS (数字におけるホンデュラス)	報告書	小型		49	オリジナル	1	ホンデュラス中央銀行						
39	DEPARTAMENTO DE CI (フランシスコモラサン県)	図	A0		1	オリジナル	1	国土地理院						

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40	MANUAL TECNICO DE CIETEMA NACIONAL DE EVALUACION DE IMPACTS AMBIENTEL (国内環境インパクト評価方法技術マニュアル) (インパクト評価及び環境コントロール総論)	7-374 報告書	A4	30	オリジナル	1	DIRECCION GENERAL DE EVALUACION DE IMPACTO CENTRAL AMBIENTAL						
41	PROGRAMA IMPACCION Y URANTENIMIENTO DE VEHICULOS (車両検査・メンテナンス)	報告書	A4	1	オリジナル	1	PROECO (プロエコ)						
42	DECLANTO (国内インパクト評価方法の規定)	書籍	A5	51	オリジナル	1	SEDA (環境省)						
43	DECLANTO (環境法一般規定)	書籍	A5	106	オリジナル	1	”						
44	EL IMPACTO (ホンデチュラスの環境に関する構造調整の政策のインパクト)	報告書	A4	77	コピー	1	UNAH (ホンデチュラス)						
45	LEIS (陸上交通道路法)	報告書	A4	3	コピー	1	議会						

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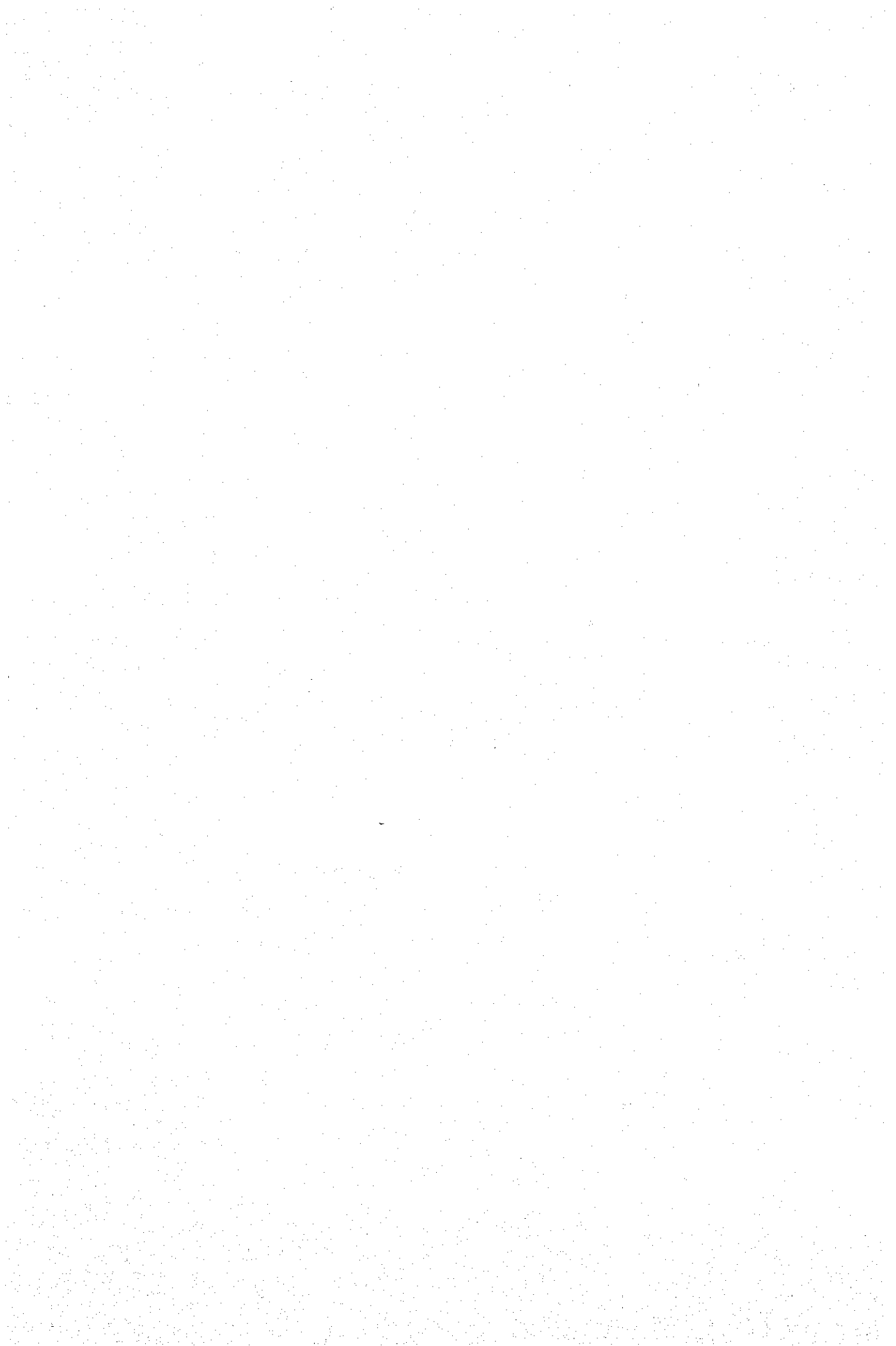
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