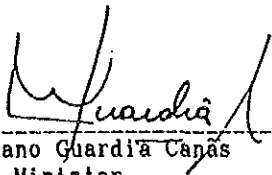


Scope of Work

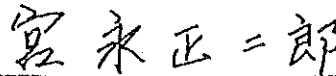
SCOPE OF WORK
FOR
THE STUDY
ON
THE DEVELOPMENT OF THREE INTERNATIONAL AIRPORTS
IN
THE REPUBLIC OF COSTA RICA

AGREED UPON BETWEEN
MINISTRY OF PUBLIC WORKS AND TRANSPORT
AND
JAPAN INTERNATIONAL COOPERATION AGENCY


SAN JOSE
OCTOBER 10, 1990



Mariano Guardia Canas
Vice Minister,
Ministry of Public Works and
Transport



Shojiro MIYANAGA
Leader of the Japanese
Preliminary Study Team,
Japan International
Cooperation Agency



Francisco Esquivel
Vice Minister,
Ministry of National Planning and
Political Economy

1. INTRODUCTION

In response to the request of the Government of the Republic of Costa Rica (hereinafter referred to as "the Government of Costa Rica"), the Government of Japan decided to conduct the Study on the Development of Three International Airports in the Republic of Costa Rica (hereinafter referred to as "the Study"), in accordance with the Agreement on Technical Cooperation between the Government of Japan and the Government of Costa Rica signed on May 24, 1985 (hereinafter referred to as "the Agreement").

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

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

II. OBJECTIVES OF THE STUDY

The objectives of the Study are as follows:

- 2.1 To formulate the Master Plan for Long-Term Development of the Juan Santamaria, Liberia (Tomas Guardia) and Limon airports.
- 2.2 To evaluate technical, economic, and financial feasibility of Short-Term Development Plan to be formulated within the framework of the Master Plan.

III. SCOPE OF THE STUDY

In order to achieve the objectives mentioned above, the Study shall cover the following items;

3.1 Evaluation of Existing Situation

- (1) Review of available data and information relevant to the Study
- (2) Field surveys
- (3) Analysis of present air transport network and air transport demand, including the relation among the three airports
- (4) Evaluation of existing facilities and utilization of the three airports

3.2 Formulation of Master Plan

An appropriate Master Plan shall be prepared for the target year 2010.

- (1) Forecast of future air transport demand
- (2) Determination of expected roles and functions of the

- three airports
- (3) Formulation of Long-Term Development Strategy of the three airports
 - (4) Analysis of facilities requirements
 - (5) Airport facilities planning
 - (6) Preparation of preliminary cost estimates
 - (7) Recommendation on management and operation systems for the three airports
 - (8) Preparation of staged implementation plan
 - (9) Recommendation of the short term development plans

3.3 Feasibility Study on Short-Term Development Plan

Feasibility Study shall be conducted for a short term development plan to be formulated within the framework of Master Plan for the target year 2000 or other year which may be considered more appropriate and in consideration of environmental aspects.

- (1) Identification of projects
- (2) Preliminary design
- (3) Construction schedule
- (4) Cost estimates
- (5) Economic analysis
- (6) Financial analysis
- (7) Evaluation of projects
- (8) Implementation programmes for projects

IV. SCHEDULE OF THE STUDY

The Study will be carried out in accordance with the attached tentative schedule as shown in the Appendix. This schedule, however, is subject to change according to circumstances.

V. REPORTS

JICA shall prepare and submit the following reports in English to the Government of Costa Rica.

5.1 Inception Report (20 copies)

This report is to describe the overall approach and implementation programme of the Study and to be submitted at the commencement of the Study.

5.2 Progress Report (20 copies)

This report will be submitted within 4 months after commencement of the Study and will contain the provisional outcome of the first field survey.

5.3 Interim Report (20 copies)

This report will be submitted within 7 months after the commencement of the Study and will include the Master

Plan.

5.4 Draft Final Report (20 copies)

This report will be submitted within 11 months after commencement of the Study and will contain all the results of the Study.

The Government of Costa Rica will provide comments on the Draft Final Report in English within 4 weeks after receipt of the report.

5.5 Final Report (30 copies)

This report will be submitted within 2 months after receipt of the above mentioned comments on the Draft Final Report.

VI. UNDERTAKING OF THE GOVERNMENT OF THE REPUBLIC OF COSTA RICA

6.1 To facilitate smooth implementation of the Study, the Government of Costa Rica will accord privileges, exemption and other benefits to the Japanese Study Team (hereinafter referred to as "the Team"), in accordance with the Agreement and shall take necessary measures :

- (1) To secure the safety of the members of the Team.
- (2) To permit the members of the Team to enter, leave and sojourn in Costa Rica for the duration of their assignment therein, and exempt them from alien registration requirements and consular fees.
- (3) To exempt the members of the Team from taxes, duties and any other charges on equipment, machinery and other materials brought into and out of Costa Rica for the implementation of the Study.
- (4) To exempt the members of the Team from income tax and other charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the Team for their services in connection with the implementation of the Study.
- (5) To provide necessary facilities to the Team for remittances as well as utilization of the funds introduced into Costa Rica from Japan in connection with the implementation the Study.
- (6) To secure permission for entry into private properties or restricted areas for the implementation of the Study.
- (7) To secure permission for the Team to take all data and documents (including photographs, maps) related to the Study out of Costa Rica to Japan.

(8) To provide medical services as needed and its expenses will be chargeable to the members of the Team.

6.2 The Government of the Republic of Costa Rica shall bear claims, if any arises against the members of the 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 Team.

6.3 Ministry of Public Works and Transport (hereinafter referred to as "MOPT") shall act as the counterpart agency to the Team and also as the coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.

6.4 MOPT shall, at its own expense, provide the Team with the following, in cooperation with other relevant organizations:

- (1) Available data and information related to the Study
- (2) Counterpart personnel
- (3) Suitable office space with necessary equipment in San Jose
- (4) Credentials or identification cards

VII. UNDERTAKING OF JICA

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

7.1 To dispatch, at its own expense, the Team to Costa Rica

7.2 To pursue technology transfer to the Costa Rica counterpart personnel in the course of the Study.

VIII. OTHERS

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

Appendix

TENTATIVE STUDY SCHEDULE

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Work in Costa Rica		[Bar]					[Bar]				[Bar]			
Work in Japan	[Bar]			[Bar]				[Bar]				[Bar]		
Submission of Report	▲			▲			▲				▲			▲
	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

[Contents of Reports]

- IC/R : Study Methodology
- P/R : Provisional Outcome of First Field Survey
- IT/R : Master Plan
- DF/R : All the Results
- F/R : All the Results

Minutes of Meeting

MINUTES OF MEETING
OF
THE STUDY
ON
THE DEVELOPMENT OF THREE INTERNATIONAL AIRPORTS
IN
THE REPUBLIC OF COSTA RICA

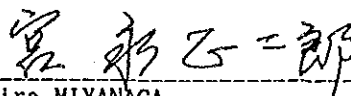
BETWEEN
MINISTRY OF PUBLIC WORKS AND TRANSPORT
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

SAN JOSE

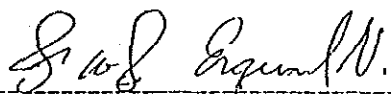
OCTOBER 10, 1990



Mariano Guardia Cañas
Vice Minister,
Ministry of Public Works and
Transport



Shojiro MIYANAGA
Leader of the Japanese
Preliminary Study Team,
Japan International
Cooperation Agency



Francisco Esquivel
Vice Minister,
Ministry of National Planning and
Political Economy

The Japanese Preliminary Study Team (hereinafter referred to as "the Team"), organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA") and headed by Mr. Shojiro MIYANAGA, visited Costa Rica from 29 September to 13 October, 1990, in connection with the Study on the Development of Three International Airports (hereinafter referred to as "the Study").

The Team made a courtesy call on Mr. Guillermo Madriz, the Minister for public works and transport on 1st of October. The Team had a series of discussions with officials of the Ministry of National Planning and Political Economy headed by Mr. Francisco Esquivel, the Vice-Minister, and the Ministry of Public Works and Transport headed by Mr. Mariano Guardia Canas, the Vice-Minister, during its stay in Costa Rica.

The Team also visited the Limon International Airport on 4th of October, the Juan Santamaria International Airport on 5th of October, and the Liberia International Airport (Tomas Guardia) on 6th of October.

1. In concluding the S/W of the Study, the both sides agreed that the Study will be conducted taking into consideration the previous studies, including the recent pre-feasibility study, as an urgent measure, of the Juan Santamaria International Airport, but subject to without prejudging those studies.
2. The Costa Rica side requested that the Scope of Works and Minutes of Meeting should be made not only in English but also in Spanish. The both sides agreed, in this respect, the English ones should be the original and the Spanish ones will be used for the reference for the Costa Rica side.
3. The both sides confirmed to use "Study on the Development of Three International Airports", as the title of the Study.
4. The both sides agreed that a steering committee or similar arrangement, among authorities concerned, will be readied to act as a coordinating body, by the Costa Rica side, to keep a smooth conduct of the Study.
5. In the developing of the Juan Santamaria International Airport, some relationships with the Tobias Bolanos International Airport should be taken into consideration in the Study.
6. The Costa Rica side requested a counterpart training should be carried out in Japan during the conduct of the Study. The Team replied to convey such request to JICA.
7. The Costa Rica side also strongly requested the Team that several vehicles to be provided by JICA in order to conduct the Study effectively and efficiently. The Team replied to convey such request to JICA.

ATTENDANCE LIST

Japanese Preliminary Survey Team

Mr. Shojiro MIYANAGA (Leader)	Senior Officer, International Cooperation Division, International Transport and Tourism Bureau, Ministry of Transport
Mr. Yuji UMEKI (Member)	Deputy Director, Construction Division, Aerodrome Department, Civil Aviation Bureau, Ministry of Transport
Mr. Yukio TAKAHASHI (Member)	Special Assistant to the Director, ATC System Planning Division, Air Traffic Services Department, Civil Aviation Bureau, Ministry of Transport
Mr. Hajime KANAI (Member)	Staff, Official Development Cooperation Division, Economic Cooperation Bureau, Ministry of Foreign Affairs
Mr. Yukihiro EJIRI (Member)	Staff, First Social Development Study Division, Social Development Study Department, Japan International Cooperation Agency
Mr. Akihiko HIROTANI (Member)	Consultant for Japan International Cooperation Agency
Mrs. Sachiyo SAKURAI (Interpreter)	International Cooperation Service Center

Embassy of Japan

Mr. Toshio WATANABE	Counselor
Mr. Yasusada OUE	Second Secretary
Mr. Noriyuki AYUKAWA	Assistant

Ministry of National Planning and Political Economy of Costa Rica

Mr. Francisco Esquivel	Vice Minister
Ms. Vilma Martinez	Senior Officer of Program and Negotiation Department
Mr. Sigifredo Guevara	Senior Officer of

Analysis on Program and Project Department

Mr. Edgar Mesen

Officer for Japan of
International Cooperation

Ms. Flory Arias

Officer of
Analysis on Program and Project Department

Ministry of Public Works and Transport of Costa Rica

Mr. Guillermo Madriz

Minister

Mr. Mariano Guardia

Vice Minister

Mr. Mario Herrera

Director General of Planning

Mr. Alvaro Escalante

Director General of Civil Aviation

Mr. Rodolfo Monge

Deputy Director General of Civil Aviation

Mr. Fernando Mendez

Head of Infrastructure Department

Ms. Isabel Lopez

Sub-Head of Infrastructure Department

Mr. Fernandez Vaglio

Officer, Infrastructure Department

Mr. Roger Garcia

Officer, Infrastructure Department

Mr. Eduardo Lopez

Officer, Air Navigation Department

Technical Counsel of Civil Aviation of Costa Rica (CETAC)

Mr. Ernesto Gutierrez

Vice President of CETAC

Mr. Francisco Mas

Director of CETAC

Mr. Ricardo Mrdrigal

Director of CETAC

Mr. Tomas F. Nassar

Director of CETAC

Mr. Claudio Hernandez

Advisor

事前調査団の調査の対応方針（案）

コスタ・リカ国国際空港整備計画調査（事前調査（S/W））

対処方針案

項 目	対 処 方 針	備 考
<p>1. 事前調査の目的及び今後の予定</p> <p>(1)目的</p> <p>(2)今後の予定</p>	<p>次の通り整理し、説明する。</p> <p>①先方政府の要請背景、内容及び意向の確認</p> <p>②本格調査の実施方針及びS/Wの協議</p> <p>③先方受け入れ体制の確認</p> <ul style="list-style-type: none"> ・先方政府の実施すべき事項 ・先方カウンターパート機関 ・調整等を目的とする委員会（Steering Committee）の必要性の有無 ・その他 <p>④本格調査に必要な事項の確認</p> <p>・1991年3月 本格調査開始</p>	<p>←別途詳述</p> <p>←最も早い時期</p>
<p>2. 要請内容及び意向の確認</p> <p>(1)全般</p> <p>(2)協力範囲</p>	<p>当方の本件調査に関する考え方を説明する。合意事項については、先方と事前調査団とがS/W、ミツに署名し、確認する。</p> <p>コスタ・リカ国のファン・サンタマリア、リベリア、リモンの3国際空港を対象として現状調査を行い、問題点の把握を行なうとともに、輸送需要の増大に対応し背後地域の社会・経済開発を推進するため、これらの空港にかかるM/Pの策定及び短期整備計画についてのF/Sを実施する。</p> <p>①既存資料・情報の収集、分析による既存空港等の現状把握、背後地域の経済・社会状況と現地自然条件調査</p> <p>②M/Pの策定（短期整備計画を含む）</p> <p>③短期整備計画についてのF/S実施</p>	
<p>3. 本格調査の実施方針及びS/W内容の協議</p> <p>(1)本格調査の目的</p> <p>(2)本格調査の対象地域</p> <p>(3)目標年次</p>	<p>①ファン・サンタマリア、リベリア、リモンの3国際空港のM/P及び短期整備計画の策定</p> <p>②短期整備計画についてのF/Sの実施</p> <p>ファン・サンタマリア空港、リベリア空港、リモン空港及びその周辺地域</p> <ul style="list-style-type: none"> ・M/P : 2005年（15年計画） ・F/S : 1997年（調査終了5年後） 	<p>・経済・社会開発計画等との整合性の確認</p>

項 目	対 処 方 針	備 考
(4)本格調査の内容と項目	<p>1. 現況把握、分析</p> <p>(1)関連資料・情報の収集、レビュー</p> <p>(2)航空網及び航空需要（3空港の機能分担）の現状分析</p> <p>(3)既存空港施設及びその利用状況の評価</p> <p>(4)自然条件調査、所要の現地調査</p> <p>2. マスタープランの策定（2005年目標年次）</p> <p>(1)将来航空需要予測</p> <p>(2)3空港の機能分担</p> <p>(3)長期整備計画の策定</p> <p>(4)空港施設整備及び配置計画</p> <p>(5)費用の概算見積り</p> <p>(6)管理・運営についての提言</p> <p>(7)段階別整備計画</p> <p>3. フィージビリティ調査の実施</p> <p>(1)短期整備計画の詳細な検討</p> <p>(2)概略設計</p> <p>(3)施工計画</p> <p>(4)費用見積り（初期投資、メンテナンス）</p> <p>(5)経済分析</p> <p>(6)財務分析</p> <p>(7)総合評価</p> <p>(8)事業実施計画</p>	<p>・データの有無の確認</p> <p>・調査実施の必要性の有無</p>
(5)調査期間	着手からF/R 提出まで13ヵ月程度	・別紙参照
(6)報告書	<p>①インセプションレポート</p> <p>・本格調査開始時</p> <p>・調査実施方針、スケジュール等を記載</p> <p>②プログレスレポート</p> <p>・調査開始後4ヵ月以内</p> <p>・現地調査結果の概要</p> <p>③インテリムレポート</p> <p>・調査開始後7ヵ月以内</p> <p>・マスタープランの概要</p> <p>④ドラフトファイナルレポート</p> <p>・調査開始後11ヵ月以内</p> <p>・全ての結果</p> <p>⑤ファイナルレポート</p> <p>④に対するコメント受領後2ヵ月</p>	<p>・報告書の表記は英文</p>

対処方針案-2

項 目	対 処 方 針	備 考
(7)本格調査に必要な確認事項	<ul style="list-style-type: none"> ①航空輸送実績、航空路線体系及び陸上交通体系との関連 ②空港施設の問題点の把握 ③カウンターパート機関の「コ」国における位置付けと権能 ④航空行政組織及び航空会社 ⑤5か年計画等、国家計画その他、関連計画 ⑥気象観測、土質調査、地形測量等の自然条件調査の必要性 ⑦上記既存資料の存在・整理状況 ⑧現地調査の内容、規模、金額及びローカルコンサルタントの能力 ⑨本格調査の実施時期（自然条件、現地事情等を勘案して決定） 	<p>主としてQuestionnaire で対応</p> <p>・自然条件調査</p>
<p>4. 先方受け入れ体制の確認</p> <p>(1)先方の実施すべき事項</p> <p>(2)先方カウンターパート機関</p> <p>(3)請訓事項</p>	<p>S/W案をもとに協議する。</p> <ul style="list-style-type: none"> ①カウンターパート機関の確認 ②関連機関の協力体制の確認 ③調整等を目的とする委員会の設置の有無とその役割の確認 (Steering committee) ①Undertaking の内容に係る事項については、必要に応じて請訓する。 ②調査内容については、著しい変更の合った場合は必要に応じ請訓する。 	
5. 議事録等	<ul style="list-style-type: none"> ①C/P研修、セミナーの開催については要請の伝達に留める。(M/M記載は可とする) ②あらかじめ作成したS/W案をもとに説明、協議し、合意の後、双方の代表者が署名する。 ③S/W及び調査の実施に関する協議内容を議事録としてとりまとめ、双方の代表者が署名し確認する。 ④ steering committee の設置をM/Mに明記する。 ⑤事業実施段階における資金調達に関しては、調査団の権限範囲外なので、制度の説明に留める。 	<p>・署名者①日本側：調査団長 ②相手側：局長クラス</p>
6. 団員業務分掌	団員所掌業務分掌案による。	
7. 報告書	目次案に従って、各担当者により作成する。	

Questionnaire及び回答

QUESTIONNAIRE

OCTOBER. 1990

JAPANESE-PRELIMINARY STUDY TEAM

THE STUDY ON DEVELOPMENT
OF
THREE INTERNATIONAL AIRPORTS
IN
THE REPUBLIC OF COSTA RICA

JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)

This questionnaire is prepared by the Japanese Preliminary Study Team for the Study on Development of Three International Airports in the Republic of Costa Rica (the Study) to get basic information and data necessary to the Study. Please answer all the questions in English and also attach materials requested in this questionnaire. Answers need not be too much in detail but should be brief and precise.

However, it should be recognized that because of the preliminary characteristic of this questionnaire, the Study Team would like to ask for additional data/information on the occasion of discussion with the Costa Rica side.

Thank you for your cooperation.

I. GENERAL

1. The Preliminary Study Team would like to obtain general explanation and related information, if any, on the followings:

- (1) Background and necessity of this Study.
- (2) Actions having been taken/being taken by the Costa Rica side to solve the all or part of existing problems of the Three Airports
- (3) Present nationwide and regional development plans and other plans which possibly influence on airport development (i.e. tourism development plan).
- (4) Present budget allocation for aviation-related administration
- (5) Present plans of three airports development
- (6) Present problems of three airports

- (7) Present status, problems, and future prospects of the role played by three airports as a transport means in comparison with surface transport
- (8) Present status, problems, and future prospects of their respective roles as a transfer airport in international air route network
- (9) Present status, problems, and future prospects of their respective roles as a hub or a transfer airport in domestic air route network
- (10) Present status, problems, and future prospects of their respective roles played in promoting regional development

2. The Study Team would like to grasp institutional framework of three airports. (i.e. planning, financing, construction, and operation aspects) Since main items are listed in the attached Table-1, please fill in each column.

(Note: The term "organization charged in" includes ministries, other public organizations, and private bodies, which are mainly responsible for planning, financing, construction, and operation aspects of the airport.)

II. NECESSARY DATA

The Preliminary Study Team would like to collect documents or maps listed in the attached Table-2, during the Study Teams' stay in Costa Rica. Please provide us with the data and information to enable us to smoothly execute the Preliminary Study for The Development of Three International Airports. If there are any data or information unavailable at this time, please enter the applicable symbol letter a, b, or c in the space provided to indicate whether we can expect the answer;

- a) by the time of commencing the detailed survey;
- b) during the detailed survey after a certain progress has been made; or
- c) the answer is not likely to become available.

Table-1 INSTITUTIONAL FRAMEWORK OF AVIATION-RELATED ADMINISTRATION
(PLANNING, FINANCING, CONSTRUCTION, AND OPERATION ASPECTS OF THE AIRPORTS BY FACILITIES)

If organization concerned is ministry or other public organization, please write down the name of the organization. In case of private body, please write "P.B"

(1)

I T E M	ORGZNIZATION CHARGED IN			
	PLANNING	FINANCING	CONSTRUCTION	OPERATION
1. Runway, Taxiway, Apron, Holding Area				X
2. Passenger Terminal building				X
3. Cargo handling facilities		X		
4. Residential Quarter for the Airport Staff				
5. Operation Tower				X
6. Administration Building				X
7. Air Navigational Aids				X
8. Lighting System				X
9. Communication system				X
10. Customs				X
11. Immigration				X

I T E M	ORGANIZATION CHARGED IN			
	PLANNING	FINANCING	CONSTRUCTION	OPERATION
2. Quarantine				X
3. Fire Station				X
4. Rescue Station				X
5. Car Parking area				X
6. Fuel Supply system				X
7. Drainage system				X
8. Water Supply system				X
9. Sewage system				X
10. Power Supply system				X
11. Access Road				X
12. Perimeter fence				X

Table-2 THE LIST OF NECESSARY DATA / INFORMATION

No.	ITEM OF NECESSARY DATA	AVAILABILITY		THE NAME OF MATERIALS
		AVAILABLE OR NOT	PLACE OF AVAILABLE DATA	
	<p>1. Authorities and Government Agencies Concerned Administrative Organization Chart with jurisdictional responsibilities and brief explanation a) Ministry of Public Works and Transportation b) General Direction of Civil Aviation c) Other concerned organization</p> <p>2. Nationwide Socio Economic Data (1) Statistics of the last 15 years and forecast on national economy and economic indicators a) GNP (if unavailable, GDP) b) Population c) Industrial products (by main sort) d) Foreign trade (export and import) values. e) The number of emigrants and immigrants (2) Materials of latest national economic development a) Authorized development plans of economics, industry, agriculture and tourism. b) Development programs of transportation facilities (road, rail ways, etc.) c) Long term forecast of economic indicators (GDP: if revised, other indicator: if any) (3) Annual budget (national total and by sector) (4) Public investment by sector (results and plan) (5) Tourism resources a) Locations and descriptions of major tourism resources b) The number of Tourists of the last 15 years and forecast c) Tourism development program</p>	<p>Yes Yes Yes</p> <p>Yes Yes Yes Yes Yes</p> <p>Yes Yes No Yes Yes</p>	<p>MOPT DGCA DGCA</p> <p>Banco Central D.G.E.C (1) MELC (2) Banco Central Min. Gobernación (3)</p> <p>MIDEPLAN MOPT</p> <p>Min. Hacienda MIDEPLAN</p> <p>Instituto Costarric. de Turismo</p>	

- 1.- Dirección General de Estadística y Censos
- 2.- Ministerio de Economía, Industria y Comercio
- 3.- Departamento de Migración y Extranjería

No.	ITEM OF NECESSARY DATA	AVAILABILITY		THE NAME OF MATERIALS
		AVAILABLE OR NOT	PLACE OF AVAILABLE DATA	
	<p>3. Regional Socio Economic Data (1) Statistics of the last 15 years and forecast on regional economy and economic indicators a) Population (by region) b) Industrial Products (by region)</p> <p>(2) Indicator/Statistics and Development Plan a) Industries b) Tourism c) Transportation (other than air)</p> <p>4. Air Transport (1) Major Agency Related to Air Transport a) Name of each agency b) Role of each agency (2) Air Route Network a) Map of international air route network, characteristics and future prospects of the network b) Map of domestic air route network, characteristics and future prospects of the network c) Future plan/policy for air route network (3) Airport in Costa Rica a) Geographical distribution of airports b) Major facilities of each airport c) Function and capacities of each airport d) Future development plan (by airport)</p>	<p>yes yes</p> <p>yes yes yes</p> <p>YES YES</p> <p>YES YES</p> <p>YES</p> <p>YES YES YES YES</p>	<p>DGEC MEIC</p> <p>MEIC ICT MOPT</p> <p>DGAC DGAC</p> <p>" " "</p> <p>" " " "</p>	

DGEC - Dirección General de Estadística y Censos
 MEIC - Ministerio de Economía, Industria y Comercio
 ICT - Instituto Costarricense de Turismo
 MOPT - Ministerio de Obras Públicas y Transportes

No.	ITEM OF NECESSARY DATA	AVAILABILITY		THE NAME OF MATERIALS
		AVAILABLE OR NOT	PLACE OF AVAILABLE DATA	
	<p>4-Iuan Santamaria Airport (1) Airport Facilities) Facilities layout of the existing airport (on scale of 1/5000)) Inventory of facilities) Construction history of airport) Actual strength of runway, taxiway and apron pavement) Actual supply/disposal volume of following facilities -Water supply -Electric power supply -Sewage -fuel supply) Profile and cross section of runways and places where cracking and other defects have arisen) Utilization status of the unpaved runway) Profile and cross section of taxiways and places where cracking and other defects have arisen) Profile and cross section of aprons and places where cracking and other defects have arisen) Utilization status of aprons -Layout of apron spots by type of aircraft -Service categories (scheduled domestic, scheduled international, cargo, small aircraft, etc.) -Tabulation of apron spots occupancy table for a typical week -Types of aircraft maneuvering (self-propelled, push-back, etc.) -Number and distribution of the GSE vehicles</p>	<p>Yes Yes Yes Yes Yes Yes Yes Yes</p>	<p>D.G.A.C. " " " " " " "</p>	<p>1:1000</p>

No.	ITEM OF NECESSARY DATA	AVAILABILITY		THE NAME OF MATERIALS
		AVAILABLE OR NOT	PLACE OF AVAILABLE DATA	
	<ul style="list-style-type: none"> -Method and capacity of fueling (hydrant or refueller) facilities -Floor plans and sections of each floor level of the terminal building -Layout plan of terminal facilities (baggage claim, x-ray check, CIQ, etc.) -Fire station and the number and the size of fire engines -Size, layout and utilization status of parking lots -Baggage facilities -Rainwater drainage system diagram -Method of treating sewage generated in the terminal area -Date opened for service, problems (degree of congestion, deterioration through aging, etc.), and requests made by users (airline companies, passengers, etc.) of each of the facilities generated in g) through M) above. 	<p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>NO</p>	<p>RECOPE</p> <p>D.G.A.C.</p> <p>"</p> <p>"</p> <p>"</p>	
	<ul style="list-style-type: none"> (2) Navigation Facilities at of the following facilities -Lighting facilities -Air-to-ground telecommunication facilities -Radio navigation facilities -Air traffic control radar facilities -Meteorological facilities facilities responsible for the operation of each of the facilities above. date opened for service, problems (deterioration through aging etc.) and requests made by the users (airline companies, etc.) of each of the facilities a) above. 	<p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p>	<p>"</p> <p>"</p> <p>"</p> <p>"</p> <p>"</p>	

No.	ITEM OF NECESSARY DATA	AVAILABILITY		THE NAME OF MATERIALS
		AVAILABLE OR NOT	PLACE OF AVAILABLE DATA	
	<ul style="list-style-type: none"> -Method and capacity of fueling (hydrant or refueller) k) Terminal facilities <ul style="list-style-type: none"> -Floor plans and sections of each floor level of the terminal building -Layout plan of terminal facilities (baggage claim, X-ray check, CIQ, etc.) -Fire station and the number and the size of fire engines -Size, layout and utilization status of parking lots l) Drainage facilities <ul style="list-style-type: none"> -Rainwater drainage system diagram -Method of treating sewage generated in the terminal area m) The date opened for service, problems (degree of congestion, deterioration through aging, etc.), and requests made by users (airline companies, passengers, etc.) of each of the facilities enumerated in g) through M) above. 	<p>YES</p> <p>YES</p> <p>yes</p> <p>YES</p> <p>YES</p> <p>NO</p>	<p>RECOPE</p> <p>D. G. A. C.</p> <p>"</p> <p>"</p> <p>"</p>	
	<p>(2) Air Navigation Facilities</p> <ul style="list-style-type: none"> a) List of the following facilities <ul style="list-style-type: none"> -Lighting facilities -Air-to-ground telecommunication facilities -Radio navigation facilities -Air traffic control radar facilities -Meteorological facilities b) Agencies responsible for the operation of each of the facilities a) above. c) The date opened for service, problems (deterioration through aging, etc.) and requests made by the users (airline companies, etc.) of each of the facilities a) above. 	<p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p>	<p>"</p> <p>"</p> <p>"</p> <p>"</p> <p>"</p>	

No.	ITEM OF NECESSARY DATA	AVAILABILITY		THE NAME OF MATERIALS
		AVAILABLE OR NOT	PLACE OF AVAILABLE DATA	
	<p>4-Lim Airport (Airport Facilities)</p> <p>a) Facilities layout of the existing airport (on scale of 1/5000)</p> <p>b) Inventory of facilities</p> <p>c) Construction history of airport</p> <p>d) Annual strength of runway, taxiway and apron pavement</p> <p>e) Annual supply/disposal volume of following facilities</p> <ul style="list-style-type: none"> -Water supply -Electric power supply -Sewage -Fuel supply <p>f) Profile and cross section of runways and places where cracking and other defects have arisen</p> <p>g) Utilization status of the unpaved runway</p> <p>h) Profile and cross section of taxiways and places where cracking and other defects have arisen</p> <p>i) Profile and cross section of aprons and places where cracking and other defects have arisen</p> <p>j) Utilization status of aprons</p> <ul style="list-style-type: none"> -Layout of apron spots by type of aircraft -Service categories (scheduled domestic, scheduled international, cargo, small aircraft, etc.) -Tabulation of apron spots occupancy table for a typical week -Types of aircraft maneuvering (self-propelled, push-back, etc.) -Number and distribution of the GSE vehicles 	<p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p>	<p>D.G.A.C.</p> <p>"</p> <p>"</p> <p>"</p> <p>"</p> <p>"</p> <p>"</p> <p>"</p> <p>"</p> <p>"</p> <p>"</p> <p>"</p>	<p>1:1000</p>

No.	ITEM OF NECESSARY DATA	AVAILABILITY		THE NAME OF MATERIALS
		AVAILABLE OR NOT	PLACE OF AVAILABLE DATA	
	<ul style="list-style-type: none"> -Method and capacity of fueling (hydrant or refueler) -Floor plans and sections of each floor level of the terminal building -Layout plan of terminal facilities (baggage claim, r-ray check, CIQ, etc.) -Fire station and the number and the size of fire engines -Size, layout and utilization status of parking lots l) Drainage facilities <ul style="list-style-type: none"> -Rainwater drainage system diagram -Method of treating sewage generated in the terminal area m) The date opened for service, problems (degree of congestion, deterioration through aging, etc.), and requests made by users (airline companies, passengers, etc.) of each of the facilities enumerated in g) through h) above. 	<p>YES</p> <p>yes</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>NO</p>	<p>RECOPE</p> <p>D. G. A. C.</p> <p>"</p> <p>"</p> <p>"</p>	
	<p>(2) Air Navigation Facilities</p> <ul style="list-style-type: none"> a) List of the following facilities <ul style="list-style-type: none"> -Lighting facilities -Air-to-ground telecommunication facilities -Radio navigation facilities -Air traffic control radar facilities -Meteorological facilities b) Agencies responsible for the operation of each of the facilities a) above. c) The date opened for service, problems (deterioration through aging, etc.) and requests made by the users (airline companies, etc.) of each of the facilities a) above. 	<p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p>	<p>"</p> <p>"</p> <p>"</p> <p>"</p> <p>"</p>	

No.	ITEM OF NECESSARY DATA	AVAILABILITY		THE NAME OF MATERIALS
		AVAILABLE OR NOT	PLACE OF AVAILABLE DATA	
	5. Laws and Regulations (1) Civil aviation Laws and related regulations (2) Aircraft noise standards (3) Tariff structure (4) Agreement on the use of airport by the other Organization 6. Others (1) Past aircraft accidents			

収集資料一覽

様式

収集資料リスト(外)

主管部長	文書管理課長	主任	調査課長

平成 年 月 日 作成

地区	中米	調査団	コスタリカ	調査の種別	事前調査	作成部隊
団名	1791力	団名称	国際空港整備専門家調査団(前派遣)	現地調査期間	2年9月29日 - 2年10月13日	担当者氏名

番号	資料名	形態	時期	ページ数	収録形式	収録区分	利用状況	利用年度	備考
1	XXX UNIVERSARIO	報告書	A4	2	1027HV	3			
2	Estatutos de la Corporación Centroamericana de Servicios de Navegación Aérea	報告書	A5	25	1027HV	1			
3	Convenio Constitutivo de la Corporación Centroamericana de Servicios de Navegación Aérea	報告書	A5	15	1027HV	2			
4	ANALES DE LA CORPORACIÓN CENTROAMERICANA DE SERVICIOS DE NAVEGACIÓN AEREA	報告書	A6	190	1027HV	1			
5	ONC K-25	地図	B0	1	1027HV	1			Defense Mapping Agency Aerospace Center
6	CARTA AERONAUTICA DE LA REPUBLICA DE COSTA RICA	地図	B1	1	1027HV	1			DGAC
7	ESTUDIO DE VIENTO EN SUPERFICIE EN EL AEROPUERTO INTERNACIONAL DE LIANA GRANDE, LIBERIA, COSTA RICA	報告書	A4	12	1027HV	1			氣象庁
8	Frecuencia relativa hora a hora (local) en febrero y octubre según la dirección y cuatro diferentes intervalos de velocidad	報告書	A4	31	100-	1			氣象庁
9	FRECUENCIA BARCELONA DE VIENTOS	図	A3	1	100-	1			氣象庁
10	ESTADISTICAS 89-90 OPERACIONES TER-VER	報告書	A4	15	100-	1			公共事業運輸局
11	INSTITUTO NACIONAL DE SEGUROS USO OFICIAL	報告書	A4	13	100-	1			DGAC
12	QUESTIONNAIRE	報告書	A4	61	100-	1			DGAC
13	TERMS AMPLIACION AEROPUERTO LIANA GRANDE LIBERIA-GTE	図	B3	1	100-	1			DGAC
14	ACTUALIZACION DEL PLANO GENERAL DEL A.I.T.S	図	B	1	100-	1			DGAC
15	ELIMINACION DE OBSTACULOS Y RESTRICCIONES AL USO EN LAS ZONAS DE INFLUENCIA DEL AEROPUERTO INTERNACIONAL JUAN SANJUANITA LIBERIA	図	A1	1	100-	1			航空局
16	INFLUENCIA DEL AEROPUERTO INTERNACIONAL JUAN SANJUANITA LIBERIA	図	A1	1	100-	1			航空局
17	ACTUALIZACION DEL PLANO GENERAL DEL A.I.T.S. (1:5000)	図	A0	1	100-	1			DGAC
18	ACTUALIZACION DEL PLANO GENERAL DEL A.I.T.S. (2)	図	B	1	100-	1			DGAC
19	SAN ANTONIO 1:10,000	地図	B2	1	1027HV	1			地理院
20	RIO SEGUNDO 1:10,000	地図	B2	1	1027HV	1			地理院
21	LA LAJUELA 1:10,000	地図	B2	1	1027HV	1			地理院

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収集資料リスト(3/3)

主任部長	文書管理課長	主任	課長
協理	副課長	主任	課長

平成 年 月 日 作成

地域	中米	西米	コスタリカ	調査の種別	集約利益	作成部隊
国名	コスタリカ	コスタリカ	コスタリカ	現地調査期間	2年9月29日-2年10月13日	担当者氏名

番号	資料名	形態	数量	単位	発行機関	調査・採集・整理期間	調査・採集・整理場所	調査・採集・整理者	調査・採集・整理日
22	COCO 1:10,000	地図	B2	1	地研局				
23	BARVA 1:15,000	地図	B2	1	地研局				
24	ABRA 1:15,000	地図	B2	1	地研局				
25	RIO GRANDE 1:15,000	地図	B2	1	地研局				
26	WARANTO 1:15,000	地図	B2	1	地研局				
27	CUADROS ESTADISTICOS SOBRE TRANSPORTE AEREO INTERNACIONAL 1982	報告書	A4	39	IC-				
28	CUADROS ESTADISTICOS SOBRE TRANSPORTE AEREO INTERNACIONAL 1987	報告書	A4	41	IC-				
29	TRANSPORTE INTERNACIONAL DE PASAJEROS	報告書	A4	41	IC-				
30	ESTUDIO DE FACTIBILIDAD Y PLAN MAESTRO DEL AEROPUERTO DE LIBERIA	報告書	A4	148	IC-				
31	ESTUDIO DE FACTIBILIDAD Y PLAN MAESTRO DEL AEROPUERTO DE LIBERIA	報告書	A4	195	IC-				
32	CALIDAD AERONAUTICA	報告書	A4	73	地研局				
33	PAPAGAYO GULF PROJECT GENERAL INFORMATION	報告書	A4	40	地研局				
34	INFORMACION GENERAL	報告書	A4	35	地研局				
35	CLASIFICACION POR MESES CON DEFICIT DE HUMEDAD CON BASE EN EL INDICE CLAI	図	B3	1	地研局				
36	Fomento el desarrollo agropecuario del país por medio del ciega y el mejoramiento	報告書	A4	19	地研局				
37	ESTUDIO DEL DESARROLLO DEL AEROPUERTO INTERNACIONAL DE LIBERIA	報告書	A4	143, 20	地研局				
38	PLAN MAESTRO Y ESTUDIO DE FACTIBILIDAD DEL AEROPUERTO DE LIBERIA	報告書	A4	273	地研局				
39	FREE ZONES	報告書	A4	19	地研局				
40	Floor Plan 地研	図	IC-	2	地研局				
41	Floor Plan 1階	図	IC-	2	地研局				
42	Floor Plan 地研	図	IC-	1	地研局				

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