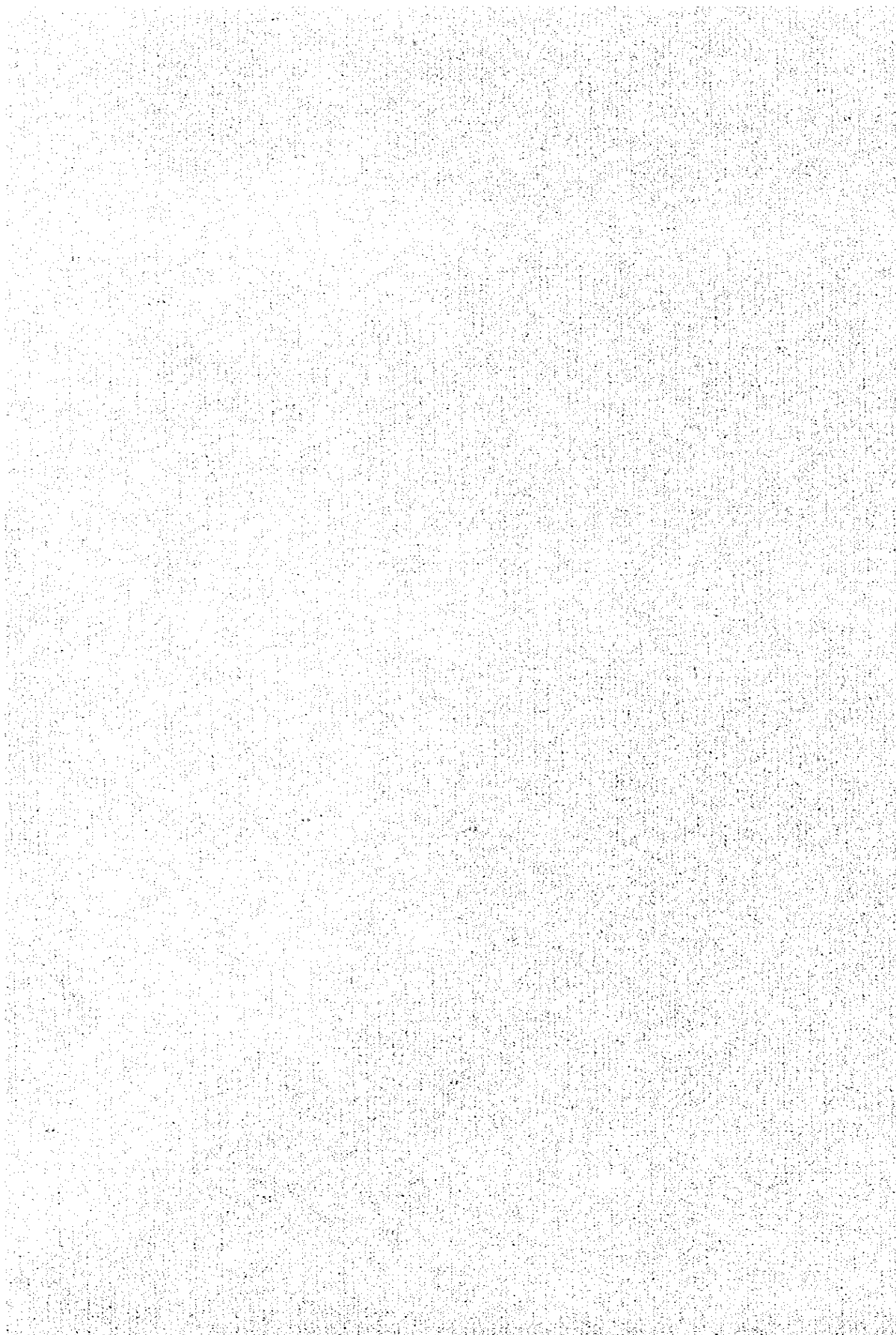


付 属 資 料

1. 要請書
2. Scope of Work
3. Minutes of Meeting
4. 事前調査団対処方針
5. Questionnaire
6. 収集資料リスト



付属資料 1. 要請書

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

1. Project digest

1.1 Project Title : Airport Development Master Plan

1.2 Location : At all Department of Aviation's airports.
(location map attached)
with the centre of project at the
Department of Aviation in Bangkok

1.3 Implementing Agency

- Name of the Agency : Construction and Maintenance Division
Department of Aviation (DOA)

- Number of staff of : Chiefs of sections = 4 persons
the Agency Administrative Officers = 6 persons
Engineers = 10 persons
Architects = 5 persons
Technicians = 32 persons

- Budget allocated : 1,000 million baht
to the Agency

- Organization chart : attached

1.4 Justification of the Project

The 13% - 25% growth rate of air transportation in Thailand
resulted in the need for airport development and construction of new
airports in order to serve the rapid and high traffic growth.

The airport development plan is in line with the government's policy of easing of the aviation regulations as well as to up-grade the existing airports to the status of international airports when direct international flights are needed.

1.5 Scheduled time of the commencement of the Project
1997-1998

1.6 Expected funding source and/or assistance
Nil

1.7 Other relevant Project , if any
Nil

2. Terms of Reference of the proposed Study

2.1 Justification of the Study

With the high growth rate of air transportation in Thailand and the government's policy of easing of the aviation regulations, the Department of Aviation has to develop existing airports and to survey the proper new sites for new airports. It is therefore, essential that new master plan of each airport must be available so that airports can serve advanced aviation technology and are economy-wise.

2.2 Justification of the Japanese Technical Cooperation

It is clearly accepted that there is remarkable development of air transportation and communications in Japan. Due to her favourable geographical location, Japan's airports serve a great volume of flights and airlines, this results in efficient airport planning technique. Besides, Japan's new international airport which has just been completed is a good example of a very well-planned airport. With the aforementioned reasons, the Japanese aviation expertise is proper to our project.

2.3 Objectives of the Study

To develop the master plan of all Department of Aviation's airports.

2.4 Area to be covered by the Study

At every DOA's airport

2.5 Scope of the Study

To develop and improve the master plan of each DOA's airport as well as to conduct economic and environmental impacts study of each phase of the airport development in accordance with the master plans.

2.6 Study Schedule

1997-1998

2.7 Expected Outputs of the Study

The major outputs of this Study will be the master plan of each individual airport. The master plan will be of great benefit to the DOA in undertaking investment economically at suitable time frame.

3. Facilities and information for the Study Team, etc.

3.1 Assignment of counterpart personnel of the implementing agency for the Study

- Civil engineer	= 2 persons
- Architect	= 2 persons
- Electrical engineer	= 1 person
- Mechanical engineer	= 1 person
- Statistics Officer	= 1 person
- Economist	= 1 person

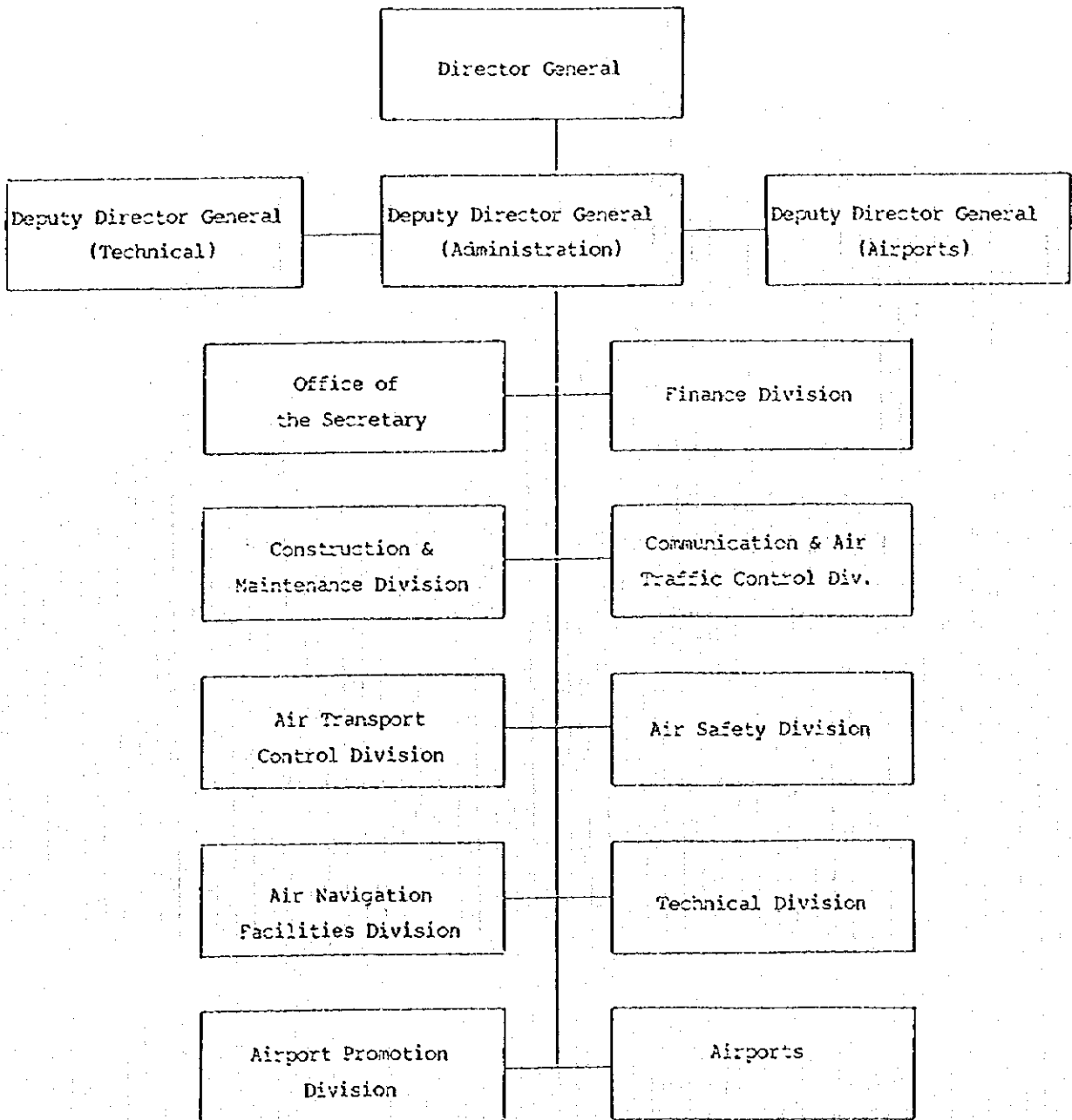
3.2 Available data, information, documents, maps etc. related to the Study

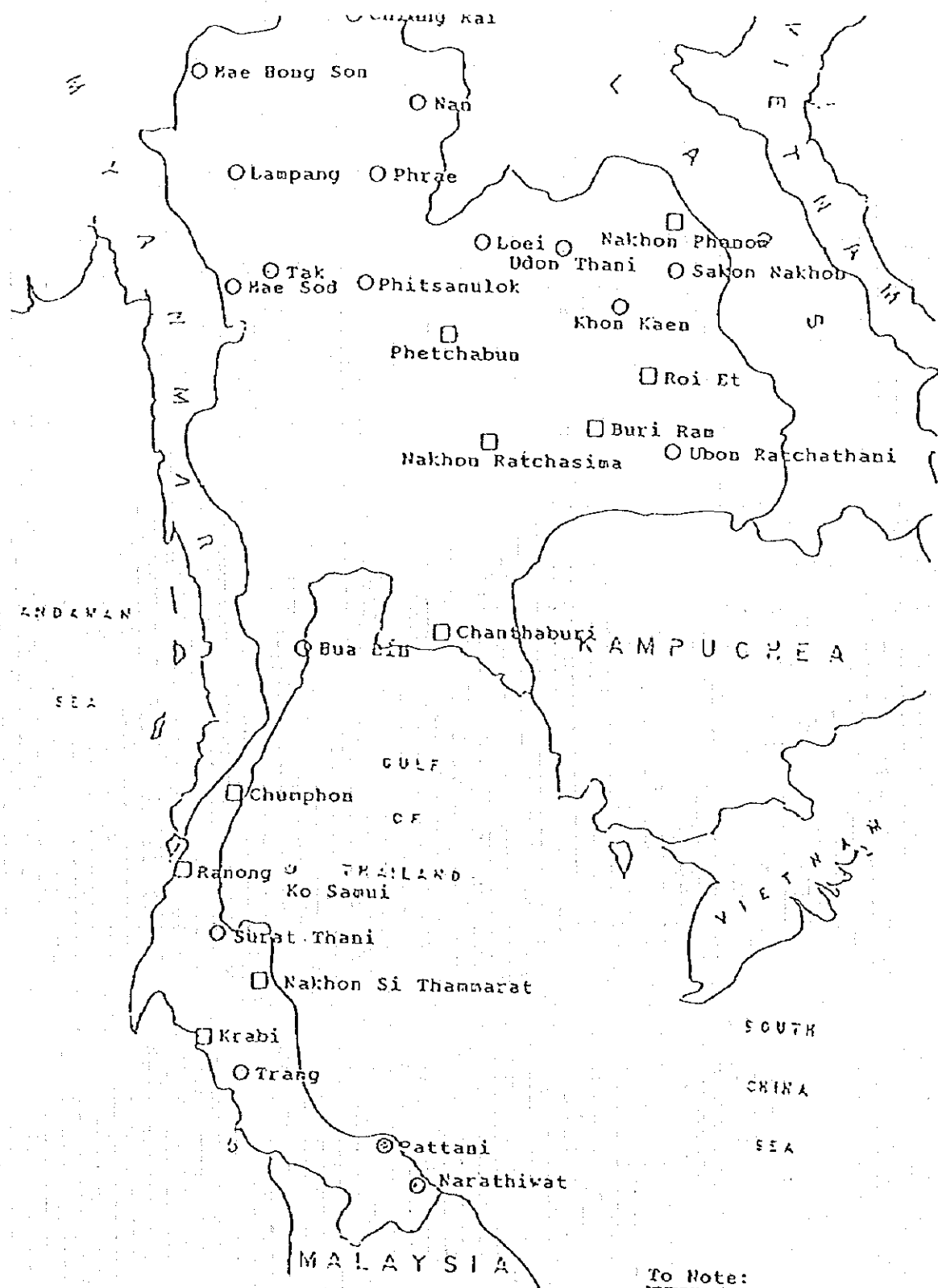
- Information concerning existing airports is available at DOA
- Other related information and data can be obtained from other concerned agencies.

4. Global Issues (Environment, Women in Development)

Nil

Organization Chart of Department of Aviation





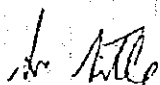
To Note:

- Existing Airport
- New Airport

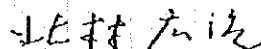
SCOPE OF WORK
FOR
THE STUDY
ON
AIRPORT DEVELOPMENT MASTER PLAN
IN
THE KINGDOM OF THAILAND

AGREED UPON BETWEEN
MINISTRY OF TRANSPORT AND COMMUNICATIONS,
DEPARTMENT OF AVIATION
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

BANGKOK, September 26, 1997



Mr. SAWAT SITTIWONG
Deputy Director General,
Department of Aviation,
Ministry of Transport
and Communications



Mr. KOJI KITAMURA
Leader,
Preparatory Study Team,
Japan International
Cooperation Agency

I. INTRODUCTION

In response to the request of the Government of the Kingdom of Thailand (hereinafter referred to as "the Government of Thailand"), the Government of Japan has decided to conduct the Study on Airport Development Master Plan in the Kingdom of Thailand (hereinafter referred to as "the Study"), within the general framework of technical cooperation between Japan and Thailand, which is set forth in the Agreement on Technical Cooperation between the Government of Japan and the Government of the Thailand signed on November 5, 1981.

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

The Department of Aviation, Ministry of Transport and Communications (hereinafter referred to as "DOA") shall act as the counterpart agency to the Japanese study team (hereinafter referred to as "the Team") and also as the coordinating body in relation with the other relevant organizations for the smooth implementation of the study.

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

II. STUDY AREA

The Study covers the airports as shown in the Appendix I, which are under the jurisdiction of DOA.

III. OBJECTIVES OF THE STUDY

The objectives of the Study are:

- to formulate basic policy and strategy on development of airports under the jurisdiction of DOA ; and
- to formulate master plans on selected priority airports with the target year of 2017

IV. SCOPE OF THE STUDY

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

1. Analysis of the present condition
 - (1) Social and economic condition
 - (2) Existing airport facilities
 - (3) Airport operation and management system
 - (4) Airspace use, air traffic control system
 - (5) Air transport network and air traffic volume

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- (6) Airline operations
- 2. Air traffic demand forecast
 - (1) Socio-economic framework
 - (2) Review of relevant plans on industry, tourism, regional development, and surface transportation network
 - (3) Air traffic demand forecast of each airport
- 3. Formulation of sector master plan (target year: 2017)
 - (1) Basic policy
 - (2) Airport development plan
 - 1) Classification of airports
 - 2) National airport system plan
 - 3) Airport facilities
 - 4) Airspace use
 - (3) Airport management and operation plan
 - 1) Institution building
 - 2) Law and regulation
 - 3) Human resources development
 - (4) Financial plan
 - 1) Private resources mobilization
 - 2) Cost sharing among beneficiaries
 - 3) Long and medium term investment program
- 4. Selection of priority airports
- 5. Formulation of master plans on priority airports (target year: 2017)
 - (1) Preliminary survey on natural conditions
 - (2) Airport facility plan
 - (3) Preliminary design
 - (4) Rough cost estimate
 - (5) Management and operation plan
 - (6) Safety measures
 - (7) Initial environmental examination (IEE)
 - (8) Preliminary economic analysis
 - (9) Staged implementation plan
- 6. Overall Evaluation

V. STUDY SCHEDULE

The Study will be carried out in accordance with the attached tentative study schedule (Appendix 2).

VI. REPORTS

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

A. A.

1. Inception Report
Ten (10) copies
At the beginning of the Study in Thailand.
2. Progress Report (1)
Ten (10) copies
Within four (4) months after the beginning of the Study
3. Interim Report
Twenty (30) copies
Within seven (7) months after the beginning of the Study
4. Progress Report (2)
Ten (10) copies
Within eleven (11) months after the beginning of the Study
5. Draft Final Report
Twenty (40) copies
Within fourteen (14) months after the beginning of the Study

The written comments on the Draft Final Report from the Government of Thailand shall be delivered to JICA within one (1) month after receipt of the Draft Final Report.

6. Final Report
Fifty (50) copies
Within one (1) month after the receipt of the written comments on the Draft Final Report from the Government of Thailand.

VII. UNDERTAKINGS OF THE GOVERNMENT OF THAILAND

1. The Government of Thailand shall accord privileges, exemptions, and other benefits to the Team, in accordance with the Agreement of Technical Cooperation between the Government of Japan and the Government of Thailand.
2. To facilitate smooth conduct of the Study, the Government of Thailand shall take the following necessary measures:
 - (1) To secure the safety of the Team in Thailand,
 - (2) To permit the members of the Team to enter, leave and stay in Thailand for the duration of their assignment therein, and exempt them from foreign registration requirements and consular fees,
 - (3) To exempt the members of the Team from taxes, duties and other charges on equipment, machinery and other materials brought into and out of Thailand for the conduct of the Study,

- (4) To exempt the members of the Team from income taxes 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 the necessary facilities to the Team for remittances as well as utilization of funds introduced into Thailand 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 within the laws and regulations in force in Thailand;
 - (7) To secure permission for the Team to take all data and documents (including maps, photographs) related to the Study out of Thailand to Japan, and
 - (8) To provide medical services as needed. Its expenses will be chargeable on the members of the Team.
3. The Government of Thailand shall bear claims, if any arise, 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.
 4. DOA shall act as the counterpart agency to the Team and as coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.
 5. DOA, at its own expense, provide the Team with the followings, in cooperation with other organizations concerned;
 - (1) available data and information related to the Study, including aerial photographs and maps,
 - (2) counterpart personnel,
 - (3) suitable office space with necessary equipment in Bangkok,
 - (4) credentials or identification cards

VIII. UNDERTAKING OF JICA

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

- (1) to dispatch, at its own expense, the Team to Thailand, and
- (2) to pursue technology transfer to Thai counterpart personnel in the course of the Study.

IX. OTHERS

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

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List of the Airports under the Jurisdiction of DOA

1. Chiang Rai Airport
2. Mae Hong Son Airport
3. Nan Airport
4. Lampang Airport
5. Phrae Airport
6. Loei Airport
7. Tak Airport
8. Mae Sot Airport
9. Pitsanulok Airport
10. Udon Thani Airport
11. Nakhon Phanom Airport
12. Sakon Nakhorn Airport
13. Khon Kaen Airport
14. Phetchabun Airport
15. Roi Et Airport
16. Buri Ran Airport
17. Ubon Ratchathani Airport
18. Nakhon Ratchasima Airport
19. Chanthaburi Airport
20. Hua Hin Airport
21. Chumporn Airport
22. Ranong Airport
23. Surat Thani Airport
24. Nakhon Si Thammarat Airport
25. Krabi Airport
26. Trang Airport
27. Pattani Airport
28. Narathiwat Airport
29. Pai Airport
30. Mae Sariang Airport
31. Betong

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Tentative Schedule

month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
WORK IN THAILAND															
WORK IN JAPAN															
Report Presentation															
	△ IC/R				△ P/R(1)			△ IT/R			△ P/R(2)		△ DF/R		△ F/R

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

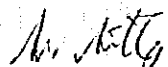
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MINUTES OF MEETING
ON
SCOPE OF WORK
FOR
THE STUDY
ON
AIRPORT DEVELOPMENT MASTER PLAN
IN
THE KINGDOM OF THAILAND

AGREED UPON BETWEEN
MINISTRY OF TRANSPORT AND COMMUNICATIONS,
DEPARTMENT OF AVIATION
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

BANGKOK, September 26, 1997



Mr. SAWAT SITTIWONG
Deputy Director General,
Department of Aviation,
Ministry of Transport
and Communications



Mr. KOJI KITAMURA
Leader,
Preparatory Study Team,
Japan International
Cooperation Agency

The Japanese Preparatory Study Team, organized by the Japan International Cooperation Agency (JICA) and headed by Mr. Koji Kitamura (Deputy Director, Office for Airport Construction Market Access, Construction Division, Aerodrome Department, Civil Aviation Bureau, Ministry of Transport) visited the Kingdom of Thailand from 17th to 27th of September, 1997 to discuss the Scope of Work for The Study on Airport Development Master Plan in the Kingdom of Thailand (hereinafter referred to as "the Study").

During the stay in Thailand, the Preparatory Study Team carried out field surveys of airports such as Surat Thani, Chiang Mai, Chiang Rai, Lampang, and had a series of discussions on the draft Scope of Work submitted by the Preparatory Study Team with the Thai Authorities concerned such as the Department of Technical and Economic Cooperation, Office of the Prime Minister (DTEC), and Department of Aviation, Ministry of Transport and Communications (DOA). And through the intensive discussions with DOA, the Scope of Work was agreed by both sides. The list of those met by the Preparatory Study Team is shown in the Annex.

The main items discussed regarding the Scope of Work are as follows;

1. MAIN FOCUS OF THE STUDY

Both sides agreed that the main focus of the Study would be the sector master plan (including basic policy and development strategy) on the all airports under the jurisdiction of DOA, which is essential in formulation of airport development policies in Thailand.

2. STUDY AREA

Both sides agreed to the followings;

- 1) The study for formulation of master plans on priority airports shall be conducted on less than ten (10) airports.
- 2) The airports which includes facilities owned or operated by any military organization shall be excluded from priority airports.

3. SCOPE OF THE STUDY

Both sides agreed to the followings;

- 1) The demand forecast of air traffic would be conducted in two cases;
 - a) ideal case ; on the assumption that ideal types of aircrafts could be introduced without

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budget limitation

b) realistic case ; based on analysis on the kind of aircrafts used at present, airline companies' budget limitation for purchasing aircrafts and other limitations

- 2) The sector master plan shall include categorization of all airports under the jurisdiction of DOA analyzing the result of demand forecast, in order to formulate expected development levels for each category.
- 3) Thai side requested that the study on related issues which should be considered in the longer term, such as general aviation, should be conducted. Japanese side explained that those issues should be studied for suggestions on the future airport development.

4. COUNTERPART PERSONNEL

Both sides confirmed that appropriate number of counterpart personnel shall be assigned from Construction and Maintenance Division, Air Navigation Facilities Division, and Technical Division of DOA.

5. STEERING COMMITTEE

Both sides agreed to form a steering committee with the mandate to provide the direction of the Study for the coordination among the relevant organizations. The steering committee should consist of relevant divisions of DOA, Transport and Communication Policy and Planning Bureau of Ministry of Transport and Communications, Airport Authority of Thailand (AAT), Aeronautical Radio of Thailand Ltd.(AEROTHAI), and other organizations related to airport development.

6. TECHNOLOGY TRANSFER SEMINAR

Thai side requested Japanese side to hold the technology transfer seminar in the course of the Study. Japanese side agreed to convey the request to JICA headquarters for positive consideration.

7. COUNTERPART TRAINING

Thai side requested Japanese side to conduct counterpart training in Japan for the purpose of the smooth transfer of technology during the Study. Japanese side agreed to convey this request to JICA headquarters for the necessary arrangement for the training. The training period, training field, and selection of personnel shall be mutually discussed after the full-scale study starts.

A. L.

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List of Attendants

Thai Side

Ministry of Transport and Communications

1. Department of Aviation (DOA)

Mr. Sawat SITTIWONG

Deputy Director General

Mr. Bundhep WANASBODIKUL

Senior Civil Engineer

<Construction and Maintenance Division>

Dr. Jaron MEE SOMBOON

Civil Engineer

<Technical Division>

Mr. Bholawit HIRUNWATSIRI

Chief, Policy and Planning Branch

Mrs. Amporn SINTAPANIN

Chief, Economic Branch, Technical Division

Mr. Satapan SEEDANONT

Policy and Planning Analyst

<Air Navigation Facilities Division>

Mr. Prasong THEANTHANOO

Chief, Project and Technical Branch

2. Transport and Communication Policy and Planning Bureau

Mrs. Jatuporn SUWANPARGPRAEK

Chief, Planning Sub Division,
Programme and Budget Division

Mr. J.

29

List of Attendants
Japanese Side

JICA Preparatory Study Team

Mr. Koji KITAMURA	Team Leader
Mr. Atsushi IWASAKI	Member
Mr. Atsuyoshi KUWABARA	Member
Mr. Ko ONODERA	Member
Mr. Ryoichi SHINO	Member
Ms. Tomoko NISHIUMA	Member
Mr. Masaaki UEHARA	Member

Embassy of Japan

Mr. Atsushi UEHARA	First Secretary
--------------------	-----------------

JICA Thailand Office

Mr. Naoto OKAWA	Assistant Resident Representative
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JICA Expert

Mr. Yoshihiro OZAWA	New Bangkok International Airport (NBIA)
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Dr. A.

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付属資料4. 事前調査団対処方針

タイ国全国地方空港整備計画調査（事前調査（S/W協議）） 対処方針

1. 調査の目的

1) 標記調査(本格調査)の目的

標記調査(本格調査)においては、DOA管轄の全28空港(既存、新規計画ともに含む)の開発にかかる下記の調査を行う。

- ① 基本政策の策定及び中長期戦略(目標年次:2016年)の策定
- ② 優先的に開発すべき空港(10空港以下)を選定し、目標年次を2016年とする各空港の開発に係る概略的なマスタープランを作成
- ③ 本格調査の現地調査業務を通じ、調査に参画するタイ側カウンターパートに対し技術移転を行う

2) 事前調査の目的及び調査内容

今回の事前調査においては、要請の内容・背景を確認し、実施のためのS/W協議・署名を行うことを目的とする。

具体的には下記の作業を行う。

- ① 先方政府の要請背景、内容及び意向の確認
- ② 本格調査の実施方針及びS/Wの協議
- ③ 先方受け入れ体制の確認
 - －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(スフィリング・コミティ)の設置の必要性の確認
- ④ 調査対象の現況把握(現地踏査)
- ⑤ Q/Nに基づく資料及び情報の収集
- ⑥ S/W、MMの署名・交換

2. 事前調査での作業内容

1) 要請の内容及び意向の確認

標記調査に対する先方の意向につき、下記の基本方針を中心に確認する。

標記調査のT/Rには、調査内容('Scope of the Study')として、「DOA管轄の各空港におけるマスタープランの策定または改良、及び各プランにおける経済評価、環境影響評価の調査」と記載されている。

しかし、合計約30空港を対象にした各空港のマスタープラン策定は規模的にJICAの開

発調査の許容範囲を超えているため、今回の調査においては、

- 7) 調査の重点を各空港の個別施設計画ではなく、地方空港行政の横断的課題（民活、地方振興等）にかかる基本方針、中長期戦略（セクターMP）の策定に置く
- 1) 優先的に開発すべき空港に係る各空港のマスタープラン作成については、対象空港数を10以下とし、本格調査での現況調査結果に基づき、日本側タイ側双方合意の上一定の選定基準（国際線就航見込み、安全面からの緊急性、当該地方の国家開発上の重要性、その他）を設定した上で対象空港を選定する

の2点を基本的方針とする（または上記7)及び1)の範囲を超えない）ことでタイ側の了解を得ることとする。

2) 本格調査の実施方針及びS/Wの協議

あらかじめ作成したS/W案をもとに説明・協議し、合意後、双方の代表者が署名する。署名者は原則として、日本側は調査団総括、タイ側は運輸通信省次官級または航空局長が署名することとする。

(1) 本格調査の目的

- ① 基本政策の策定及び中長期戦略（目標年次：2016年）の策定
- ② 優先的に開発すべき空港（10空港以下）を選定し、目標年次を2016年とする各空港の開発に係る概略的なマスタープランを作成
- ③ 本格調査の現地調査業務を通じ、調査に参画するタイ側カウンターパートに対し技術移転を行う

(2) 目標年次

目標年次についてはT/Rには特に記述はない。中長期戦略及び優先開発空港のマスタープランの目標年次は、国家経済社会開発計画に準じ、2016年とするが、最終的には協議の上決定する。

(3) 調査対象空港

- ① 上記1) ①基本政策の策定及び中長期戦略の策定に関しては、DOA管轄の全28空港（T/Rに添付の地図に記載の空港。既存、新規計画ともに含む）を対象とする。ただし、T/Rの地図にないDOA管轄の空港があることが判明した場合は、それらも対象とすることとする。いずれの場合も対象空港数及び名称をMMに記載する。

②上記1)の③優先開発空港の選定に関しては、軍民共用空港は選定対象から除くこととすることでタイ側の合意を得、その旨MMIに記載する。

③その他、軍民共用空港の扱いについては適宜MMIに記述し、ODA大綱に反した調査とならぬよう細心の注意を払う。

(4) 研修員受け入れ

研修員受け入れにかかる要請があった場合、内容を検討の上適当であると認められれば、日本側に伝達する旨MMIに記載。

4. 本格調査の内容と項目

*必要に応じ、各項目について、調査の具体的内容をMMIに記載する。

1. 現状分析

- (1) 社会経済条件
- (2) 空港施設
- (3) 空港管理運営
- (4) 空域利用、航空交通管制
- (5) 航空交通網及び航空輸送量
- (6) 航空会社運航状況

2. 需要予測

- (1) 社会経済フレームワークの設定
- (2) 産業、観光、地域開発、陸上交通網等に係る関連計画のレビュー
- (3) 航空交通需要予測

3. セクターマスタープランの策定（目標年次：2016年）

- (1) 基本政策
- (2) 空港開発計画
 - 1) 空港の格付け・機能分担
 - 2) 国内空港システム計画
 - 3) 空港施設
 - 4) 空域利用

(3) 空港管理運営計画

- 1) 制度・組織
- 2) 法規制
- 3) 人材養成

(4) 資金計画

- 1) 民間資本導入
- 2) 受益者負担
- 3) 中長期の投資計画

4. 優先開発空港の選定

5. 優先開発空港に係るマスタープランの作成（目標年次：2016年）

- (1) 予備的自然条件調査
- (2) 空港施設計画
- (3) 予備的概略設計
- (4) 概略費用積算
- (5) 管理運営計画
- (6) 安全対策
- (7) 初期環境調査（IEE）
- (8) 予備的経済分析
- (9) 段階的整備計画

6. 総合評価

5. 調査期間、成果品について

1. 調査期間

T/Rには調査期間についての記述は特になく、事前調査団の案として着手からF/R提出まで15か月程度の計画案（S/W案に添付のTentative Schedule）を提示するが、最終的にはタイ側と協議の上調査期間を決定する。

2. 報告書

1) 提出時期および部数について

部数については、先方政府の要望を確認の上、事前調査団の判断で変更できるものとする。

- ① インセプションレポート（10部）
 - ・タイ国での本格調査開始時に提出
 - ・調査実施方針、スケジュール等を記載
- ② プログレスレポート1（10部）
 - ・調査開始後5ヵ月以内に提出
 - ・現地調査結果概要（主として基本政策、中長期戦略について）を記載
- ③ インテリムレポート（20部）
 - ・調査開始後7ヵ月以内に提出
 - ・基本政策、中長期戦略につき記載
- ④ プログレスレポート2（10部）
 - ・調査開始後11ヵ月以内
 - ・現地調査結果概要（主として優先開発空港のM/Pについて）を記載
- ⑤ ドラフトファイナルレポート（20部）
 - ・調査開始後13ヵ月以内に提出
 - ・すべての結果
- ⑥ ファイナルレポート（50部）
 - ・ドラフトファイナルレポートに対するコメント受領後1ヵ月以内に提出。

2) 報告書の取扱等について

- ① S/W協議の際に、本調査「タイ国全国地方空港整備計画調査」の最終報告書については、原則「公開扱い」にすることでタイ側に理解を求める。
- ② また、報告書の公開について、
 - ・S/W協議時にタイ側の意向が不明確な場合（特に部分的な公開について）
 - ・報告書の全体あるいは一部を非公開にすべきとのタイ側の意向が強い場合においては、実施調査時のしかるべく時期にあらためて協議することとし、この旨議事録にて確認しておく。
- ③ タイ側から、タイ語による概略版報告書の作成等の要請があった場合、その旨MMIに記載し、持ち帰り検討することとする。

6. その他本格調査に必要な確認事項

本格調査の内容の検討の際重要な要素となる下記の事項につき確認を行う。

- 1) 地方空港旅客需要
- 2) 航空輸送の規制緩和の動向
- 3) 地方空港の国際線乗り入れの現況及び見通し

4) 地方空港整備にかかる国家レベルの基本政策

また、次の各調査項目について、本格調査において必要とされる調査の深度をタイ側との協議及び現地踏査を通じて確認する。

1) 地方空港背後圏の潜在力評価

地域振興計画、アクセス交通網、産業政策、観光政策、観光産業等の調査深度

2) 多様な事業形態の検討

地域振興と自治体の役割（第三セクター方式、地方自治体と国との役割分担）
民活（BOT方式等）等

3) 全地方空港の整備を包括的にカバーする中長期投資戦略の策定

7. 先方受け入れ体制の確認

1) 先方の実施すべき事項

S/W案をもとに協議する。

2) 先方カウンターパート機関

①カウンターパート機関の確認

T/Rでは実施機関として運輸通信省航空局建設・維持管理課が挙げられている。建設・維持管理課のC/Pとしての適否を確認し、必要があれば航空局内他課の主体的な関与を求め、C/Pのヘッドを局次長とする局内横断的なワーキンググループの編成を提案する。C/P機関については双方合意の上MMで確認する。

②調整等を目的とする委員会（スタアリング・コミティ）の設置の有無の確認の上、MMに記載する。

③スタアリング・コミティを設置する場合は、構成機関と役割・目的について確認の上、MMに記載する。

8. 請訓事項

1) Undertaking の内容にかか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、著しい変更があった場合には必要に応じ請訓する。

3) S/W協議の結果は在タイ日本大使館に報告し、公電発出を依頼する。

9. 事前調査団員の担当事項

1) 総括／空港整備計画

・調査業務全般の総括

- ・先方政府の意向確認
- ・要請の背景及び内容の確認
- ・対象空港の現状把握
- ・空港整備計画に係る現状把握
- ・S/W（案）、MM（案）、対処方針（案）、質問事項の検討
- ・S/W・MM協議・署名
- ・実施調査の基本方針、実施調査への提言の取りまとめ
- ・事前調査報告書（総括／空港整備計画）の作成

2) 空港施設計画

- ・S/W（案）、MM（案）、対処方針、質問事項の検討
- ・S/W・MM協議
- ・対象空港に係る現状把握
- ・空港施設等に関する現状把握
- ・施設計画に係る現状分析、情報収集
- ・実施調査内容（空港施設計画）の検討
- ・事前調査報告書（空港施設）の作成

3) 航空保安施設計画

- ・S/W（案）、MM（案）、対処方針、質問事項の検討
- ・S/W・MM協議
- ・対象空港に係る現状把握
- ・空港施設等に関する現状把握
- ・施設計画に係る現状分析、情報収集
- ・実施調査内容（航空保安施設計画）の検討
- ・事前調査報告書（航空保安施設）の作成

4) 管理運営計画

- ・S/W（案）、MM（案）、対処方針、質問事項の検討
- ・S/W・MM協議
- ・対象空港に係る現状把握
- ・空港施設等に関する現状把握
- ・施設計画に係る現状分析、情報収集
- ・実施調査内容（管理運営計画）の検討
- ・事前調査報告書（管理運営計画）の作成

5) 協力政策

- ・ S/W (案)、MM (案)、対処方針、質問事項の検討
- ・ S/W・MM協議
- ・ 本調査における軍民共用空港の扱いについての検討
- ・ 事前調査報告書(協力政策)の作成

6) 調査企画

- ・ 調査業務全般の企画・調整
- ・ 関連機関・在外公館等の調整
- ・ 本調査の経緯、Undertaking、開発調査の説明
- ・ S/W・MM協議
- ・ S/W (案)、MM (案)、対処方針、質問事項の検討
- ・ 事前調査報告書(調査企画)作成
- ・ 事前調査報告書、実施調査への提言のとりまとめ

7) 需要予測/地域開発

- ・ S/W (案)、MM (案)、対処方針、質問事項の検討
- ・ S/W、MM協議
- ・ 調査対象空港の需要予測にかかる情報収集
- ・ 調査対象空港所在地周辺での移動手段、産業、地域開発計画、環境等にかかる情報収集
- ・ その他実施調査内容の検討に必要な資料の収集
- ・ 実施調査内容の検討(現地再委託調査内容の検討を含む)
- ・ 現地再委託費用積算にかかる資料の収集
- ・ 事前調査報告書(需要予測/地域開発)の作成

QUESTIONNAIRE
FOR
THE STUDY
ON
AIRPORT DEVELOPMENT MASTER PLAN
IN
THE KINGDOM OF THAILAND

SEPTEMBER, 1997

JAPANESE PREPARATORY STUDY TEAM
JAPAN INTERNATIONAL COOPERATION AGENCY
(JICA)

This questionnaire is prepared by the Japanese Preparatory Study Team for the Study on Airport Development Master Plan in the Kingdom of Thailand (hereinafter referred to as "the Study") so as to get basic information and data required for the Study. Please answer all the questions in English and also identify 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 its preliminary characteristic of this questionnaire, the Study Team would like to ask for additional data / information on the occasion of discussion with the Thai side.

Thank you for your cooperation.

Item	Description	Availability	Place of Available Data	Remarks
1. Organization Chart	<p>Administrative organization chart with jurisdictional responsibilities and brief explanation.</p> <p>(1) Ministry of Transport and Communication (MOTC)</p> <p>(2) Department of Aviation (DOA)</p> <p>(3) Airports Authority of Thailand (AAT)</p> <p>(4) Department of Technical and Economic Cooperation (DTEC)</p> <p>(5) Aeronautical Radio of Thailand Ltd. (AEROTHAI)</p> <p>(6) Meteorological Department</p> <p>(7) Other concerned organization</p>	A	MOCT	
2. Nationwide Socio Economic Data of Thailand	<p>Statistics of the last 10 years and forecast on national economy and economic indicators</p> <p>a) GNP (if unavailable, GDP)</p> <p>b) Population</p> <p>c) Industrial products (by main sort)</p> <p>d) Foreign trade (export and import) values</p> <p>e) The number of emigrants and immigrants</p> <p>(2) Materials of latest national economic development</p> <p>a) Authorized development plans of economics, industry, agriculture and tourism</p>	A	<p>NESDB, BOI</p> <p>NESDB</p>	

Item	Description	Availability	Place of Available Data	Remarks
	<ul style="list-style-type: none"> b) Development programs of transportation facilities (road, rail ways, etc.) c) Long term forecast of economic indicators (GDP: if revised, other indicator: if any) 	A	MOTC NESDB	
	(3) Annual budget (national total and by sector)	A	The Bureau of the Budget	
	(4) Public investment by sector (results and plan)	A	BOI	
	(5) Tourism resources	A	TAT	
	<ul style="list-style-type: none"> a) Locations and descriptions of major tourism resources b) The number of Tourists of the last 10 years and forecast c) Tourism development program 			
3. Regional Socio Economic Data (Northern, Northeastern, Central, Southern Regions)	(1) Statistics of the last 10 years and forecast on regional economy and economic indicators	A	NESDB	
	<ul style="list-style-type: none"> a) Population (by region) b) Industrial Products (by region) 			
	(2) Indicator/Statistics and Development Plan	A	BOI, MOTC	
	<ul style="list-style-type: none"> a) Industries b) Transportation (other than air) 			
	(3) Tourism Resources	A	TAT	
	<ul style="list-style-type: none"> a) Locations and Capacities of the Hotels b) The Number of Tourists of last 15 years by Nations and forecast c) New Hotels Development Plans 			

Item	Description	Availability	Place of Available Data	Remarks
(4) <i>Map</i>	<ul style="list-style-type: none"> a) Topographical Map (1/10,000) (if None, possibility of drawing from Aerial Photograph) b) Geographical Map c) land use d) Natural Vegetation Map 	A	Royal Tuai Surrey DEPT..	
(5)	<ul style="list-style-type: none"> Environmental Conditions a) Regulation of Environment Conditions b) Development Restriction Area c) National parks 	A	DEPT. of Town and Country Planning	Office of the Environment Policy and Planning
(6)	<ul style="list-style-type: none"> Natural Conditions a) Meteorological Data b) Disaster Records (Earthquakes, Floods, etc.) 	A	MET. DEPT	
4. Air Transport	(1) Major Agency Related to Air Transport	A	DOA	
	<ul style="list-style-type: none"> a) Name of each agency b) Role of each agency 			
	(2) Air Route Network			
	<ul style="list-style-type: none"> 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 			

Item	Description	Availability	Place of Available Data	Remarks
(3)	<p>Airport in Thailand</p> <ul style="list-style-type: none"> a) Geographical distribution of airports b) Inventory of Major facilities of each airports (R/W, T/W, Apron, Car Parks, Cargo and passenger Terminal Buildings, Fire Fighting, Fuel Supply, Control Tower, Administration Office, Power Supply, Water Supply, Sewage Treatment, Nav/Aids etc.) c) Function and capacities of each airport e) Future development plan (by airport) e) Design and planning criteria (airport layout plan, building code) f) Establishing and Adminstrating Body g) Airport access h) Existing Airport layout plan (each airports) i) Meteorological data (Wind-rose, Visibility and cloud height, rainfall for each airports) j) Geological data (boring etc.) 	A	DOA	
(4)	<p>Airport-related budget</p> <ul style="list-style-type: none"> a) Airport construction budget (last 10 years) b) Airport maintenance budget (last 10 years) 	A	DOA	
(5)	<p>Statistics (at least last 10 years) (national total and by airport)</p> <ul style="list-style-type: none"> a) International and domestic passengers (by monthly, departure/arrival, routes) b) International and domestic cargo (by monthly, loading/unloading, routes) c) Postal materials d) Military aircraft activities 	A	DOA	

Item	Description	Availability	Place of Available Data	Remarks
	<ul style="list-style-type: none"> c) Number of takeoffs and landings (including general aviation by international and domestic) f) Annual Report of AAT g) International Charter Flights h) Air route traffic (by air routes) 			
	<ul style="list-style-type: none"> (6) Airline Company <ul style="list-style-type: none"> a) Name of airline companies in Thailand b) International and domestic route map and timetable (by airline) c) Air fleet (actual and future plan) d) Foreign airline companies desiring to serve the airport in Thailand e) Major airline maintenance facilities in Thailand f) National Policy on Airline 	A	DOA	
	<ul style="list-style-type: none"> (7) General Aviation <ul style="list-style-type: none"> a) Statistics of activities 	A	DOA	
	<ul style="list-style-type: none"> (8) Demand Forecast of Air Transportation (total and by airport) 	A	DOA	
	<ul style="list-style-type: none"> (9) Air Traffic Service <ul style="list-style-type: none"> a) AIP b) Control area map c) Arrangement of navigational and severance facilities d) Control procedure e) Responsible body (enroute, approach, tower) 	A	DOA	

Item	Description	Availability	Place of Available Data	Remarks
5. Laws and Regulations	<ul style="list-style-type: none"> a) Published Basic Rules for Air Traffic Control b) Ground network c) Intended future plan, if available d) General description of maintenance organization <ul style="list-style-type: none"> (1) Civil aviation laws and related regulations (2) Aircraft noise standards (3) Tariff structure (4) Agreement on the use of airport by other Organization (5) Environmental Regulations 	A	DOA	
6. Others	<ul style="list-style-type: none"> (1) Past aircraft accidents (2) Local Consultants which can conduct seismic survey and boring. 	A	DOA	

Note: Availability A: Available, N/A: Not Available

付属資料6. 収集資料リスト

No.	資料の名称	ページ数	オリジナル/コピー	発行機関
1	第8次経済・社会開発計画	11/151	オリジナル	NESDB
2	空港分類(用地・施設・管理)	2	コピー	DOA
3	Organization and Functions of the DOA	2	コピー	DOA
4	航空会社別フライト・スケジュール	13	コピー	DOA
5	全国空港位置図	1	コピー	DOA
6	空港別施設規模	5	コピー	DOA
7	空港別旅客実績(1985-1996)	22	コピー	DOA
8	Private Aircraft List	4	コピー	DOA
9	AAT組織図及び役割	9	コピー	AAT
10	AAT管理空港開発計画	2	コピー	AAT
11	AAT出資会社リスト	1	コピー	AAT
12	AAT Annual Report (1996)	1	オリジナル	AAT
13	AERO THAI 組織図	1	コピー	AERO THAI
14	AERO THAI Annual Report (1995)	1	オリジナル	AERO THAI
15	TG 組織図	1	コピー	TG
16	TG 空港別旅客実績(1994-1996)	5	コピー	TG
17	TG Annual Report (1996)	1	コピー	TG
18	DTEC in Brief	16	オリジナル	DTEC
19	チェンライ空港平面図等	6	青焼き	DOA
20	ランバン空港平面図等	7	青焼き	DOA
21	スラタニ空港平面図等	6	青焼き	DOA

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