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1. 要請書 (TOR)

REQUEST
FOR TECHNICAL ASSISTANCE

TERMS OF REFERENCE INTEGRATED
PLANS FOR DEVELOPMENT OF
BORDER TOWN AREAS

Center for Integrated Plan of Operation
Office of the National Economic and Social
Development Board

April 1996

TERMS OF REFERENCE
INTEGRATED PLANS FOR DEVELOPMENT OF
BORDER TOWN AREAS

I. Background

According to the 8th National Economic and Social Development Plan (1997-2001), the development guidelines are to improve the country's equity, people's quality of life and economic efficiency. To ensure more equality of economic opportunities, several major policies and measures are designed to encourage economic decentralisation through establishing new economic zones outside the Bangkok Metropolitan Area (BMA) as well as developing regional cities and border towns.

In case of border towns, there is an emergence of market economies along the borders between Thailand and its neighbouring countries which is becoming more strategically crucial for stimulating economic decentralisation and income distribution in remote areas. A number of border towns may have considerable potential to be developed as new economic base connecting Thailand with neighbouring countries.

It is essential to formulate plan, policy and programmes for the border towns development in a direction that will help promote closer economic cooperation with the neighbouring countries. In strengthening the process, the nature of border settlements must be taken into consideration, especially those settlements where border towns could serve as "gateways" for instigating subregional economic cooperation.

The development of border towns requires coordination among various agencies dealing with related sectors such as infrastructure, trade and investment, tourism, human resource development and environment. These agencies normally do not explicitly consider the spatial impacts of their policies and operations. Nor are they concerned with the geographic location of economic development and socio-economic programming. In consequence, a major effort is needed to develop a comprehensive national strategy for border towns development integrating the roles and responsibilities of all related agencies, both public and private.

II. Objective

To support the development of border town economies in a manner that will enhance subregional economic cooperation, Thailand's global competitiveness as well as improve the quality of life of those living in the border towns, the study is aimed to

1. assess the current situation and prospects for comprehensive economic and social development of border towns in a cluster form and at a regional level;

2. assess the implications of a "subregional development framework" for linking the country's decentralisation process to subregional cooperation programmes; and

3. formulate a strategy on border town development in line with subregional cooperation.

III. Target Areas

To strengthen policy, planning and programming capabilities for decentralisation and in line with Thailand's strategy and programmes of subregional cooperation with

neighbouring countries, two clusters of six potential border towns under the study are as follows :

The North

1. Mae Sai (Chiang Rai Province)
2. Chiang Khong (Chiang Rai Province)
3. Chiang Saen (Chiang Rai Province)
4. Huai Khon (Nan Province)

The Northeast

5. Muang District (Nakorn Phanom Province)
6. Muang District (Mukdaharn Province)

IV. Scope of Work

1. The study would analyse and recommend key developmental roles for the six border towns. These roles would be consistent with national strategies and development guidelines on decentralisation of economic activities, enhanced competitiveness as well as promotion of cross-border trade and investment with neighbouring countries.

2. Developmental roles would be determined utilising strategic analysis of strengths-weaknesses-opportunities-threats from both internal (Thailand) and external (neighbouring

countries) environments. Defined roles for each of the six growth centers would be based on a cluster development approach with its internal hinterland as well as comparative advantage and complementarity with neighbouring countries. Apart from spatial development plan with required infrastructure and facilities, the development strategy would lead to identification and selection of priority sectors for action such as industry, agro-industry, agriculture, tourism, natural resource management and other economic opportunities.

3. Taking the subregional infrastructure linkage into account, intra urban and intra regional infrastructure network and facilities plans would be developed addressing type, size, location and budget. Specific types of infrastructure to be considered would include

- 3.1 transportation and communication networks and facilities;
- 3.2 industrial services and facilities;
- 3.3 environmental systems for waste water, solid waste (including hazardous waste), flood control and drainage, and air pollution control;

3.4 systems for domestic and industrial water supply; and

3.5 human resource development to improving conditions of the urban poor and improvement of urban amenity.

4. The feasibility of creating a special economic zone (SEZ) in some potential border towns should be considered as a test-bed case.

5. An investment plan should be prepared for each of the target areas. High priority projects would be identified and phased over a 5-10 year timeframe. Supportive measures would be identified in terms of institutional arrangements, strengthening of local government, private sector investment funding and promotion and cost recovery related to infrastructure development.

6. In undertaking the study, consultant should ensure the meaningful participation of local citizens, local private sector and local government in conducting all stages of the work. This participation should involve a variety of mechanisms, including meetings and seminars, in which

representatives of various segments of the community participate in all six communities.

7. When draft planning documents have been completed, two workshops should be held, ~~one in the north and the other in the south~~. This is to create consensus among all agencies and stakeholders concerned, to consider draft plans and to identify priority actions for 5-10 years timeframe.

V. Required Budget

	Unit : Baht
International Consultants	
50 months x 400,000 per month:	20,000,000
Travel Expenses for International	
Consultants:	5,000,000
Thai Consultants 80 months:	9,600,000
Surveys and Analysis:	2,750,000
Seminar/Workshops:	3,500,000
Translation:	200,000
Vehicle (2):	800,000
Contingency:	1,200,000
Total	39,550,000

2. Scope of Work (S/W)、Minutes of Meeting (M/M)

SCOPE OF WORK

FOR

THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN
FOR THE NORTHEASTERN BORDER REGION
IN THE KINGDOM OF THAILAND

AGREED UPON BETWEEN

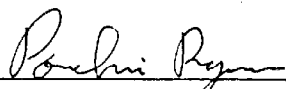
OFFICE OF THE NATIONAL ECONOMIC AND SOCIAL DEVELOPMENT BOARD

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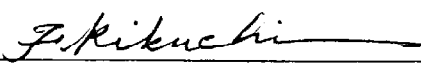
JAPAN INTERNATIONAL COOPERATION AGENCY

BANGKOK

NOVEMBER 23RD, 1999



DR. PORNCHAI RAJIPRAPA
DEPUTY SECRETARY-GENERAL,
OFFICE OF THE NATIONAL ECONOMIC
AND SOCIAL DEVELOPMENT BOARD



MR. FUMIO KIKUCHI
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 "RTG"), the Government of Japan (hereinafter referred to as "GOJ") has decided to conduct "the Study on The Integrated Regional Development Plan for the Northeastern Border Region 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 5th, 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 RTG.

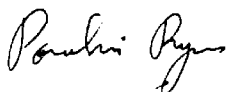
The Office of the National Economic and Social Development Board (hereinafter referred to as "NESDB") shall act as the counterpart agency to the Japanese study team (hereinafter referred to as "the Team") and also as the coordinating body in relation with the other relevant organizations for the smooth implementation of the Study.

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

II. OBJECTIVES OF THE STUDY

The objectives of the Study are :

- (1) to draw up a regional development master plan inclusive of its component projects of the Study Area (Mukdahan, Nakhon Phanom, Sakon Nakhon, and Kalasin Provinces) toward the year 2020, in view of the region's relationship with Greater Mekong Sub-region (GMS) and its linkage with cross border region of Lao People's Democratic Republic (hereinafter referred to as "Lao PDR") across the Mekong River,
- (2) to propose a phased plan of action to implement the regional development master plan coupled with a package of programs which are critical for implementing the master plan and ensuring its sustainability for the future,
- (3) to carry out preliminary feasibility studies (Pre F/S) on a couple of key projects of the master plan, and
- (4) to pursue technology transfer and/or information dissemination to counterpart personnel, regional planners, stakeholders and others through on-the-job training, and



workshops/seminars.

III. STUDY AREA

The Study Area covers the whole area of Mukdahan, Nakhon Phanom, Sakon Nakhon, and Kalasin Provinces which are on the East-West Transport Corridor of the GMS.

IV. SCOPE OF THE STUDY

In order to achieve the objectives mentioned above, the Study shall cover the following items. It should be noted that the details of each item would be determined during the Study based upon the data availability :

1. Analysis of the Current Situations to identify Regional Development Issues
 - (1) Analysis of current situations and issues of GMS from a view point of Thailand
 - (2) Analysis of current situations and issues of Thailand (including regional income gap, national and local finance, human resources and decentralization)
 - (3) Analysis of current situations and issues of the Study Area (including regional needs and environmental issues)
 - (4) Analysis of current situations and issues of the cross-border trade and communications with Lao PDR (including regional needs)
 - (5) Identification of the developmental problem structure of the Study Area

2. Analysis of the East-West Transport Corridor from a view point of the Regional Development of the Study Area
 - (1) Analysis of local and national impacts of the First Mekong Bridge
 - (2) Study on possible utilization of the Second Mekong Bridge from a short term and a local point of view (including necessary measures)
 - (3) Study on possible utilization of the East-West Transport Corridor from a long term and a sub-regional point of view (including necessary measures)
 - (4) Study on policy measures to mitigate any possible negative impacts on the Study Area
 - (5) Development of a basic policy for better utilization of the Second Mekong Bridge and the East-West Transport Corridor for the regional development of the Study Area

Ponabhi Ryan

3. Drawing-up of a Regional Development Master Plan

- (1) Objectives/ targets of the regional development master plan
- (2) Regional development scenarios linking a short term/ local perspective with a long term/ sub-regional perspective
- (3) Regional development master plan of the Study Area and its development time framework
- (4) Linkage development plan with cross border region of Lao PDR across the Mekong River and its development time framework
- (5) List of projects composing the Master Plan with an appropriate phasing

4. Preparation of a Package of Programs for the Master Plan Implementation

- (1) General approach to the master plan implementation
- (2) Programs in terms of promoting GMS
- (3) Programs in terms of implementing the Master Plan
- (4) Programs in terms of encouraging the linkage with cross border region of Lao PDR across the Mekong River
- (5) Programs in terms of ensuring the sustainability of the Master Plan (including national and local finance, human resource and environment)
- (6) List of programs implementing the Master Plan with an appropriate phasing

5. Development of a Plan of Action

- (1) Basic conditions for the Master Plan Implementation
- (2) Development institutions and stakeholders
- (3) Economic activity development
- (4) Human resource development
- (5) Environmental management
- (6) Development finance
- (7) A plan of action by stakeholders with an appropriate phasing

6. Preliminary Feasibility Studies (Pre F/S)

- (1) Roles and functions expected in the regional development master plan
- (2) Creating alternatives
- (3) Estimating future demand and project costs of the alternatives
- (4) Evaluating the alternatives
- (5) Conclusions and recommendations

Pamchi Ryan

V. STUDY SCHEDULE

The Study shall be implemented in accordance with the attached tentative study schedule shown in APPENDIX.

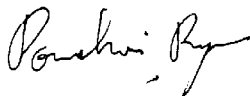
VI. REPORTS

JICA shall prepare and submit the following reports to RTG.

1. Inception Report
Thirty (30) copies in English
within one (1) month after the commencement of the Study.
2. Progress Report
Thirty (30) copies in English
within four (4) months after the commencement of the Study.
3. Interim Report
Forty (40) copies in English
within eleven (11) months after the commencement of the Study.
4. Draft Final Report
Forty (40) copies in English
within sixteen (16) months after the commencement of the Study.
RTG will provide JICA with its comments
within one (1) month after the receipt of the Draft Final Report.
5. Final Report
A hundred (100) copies in English for the Main Report and Sector Report, and
a hundred (100) copies each in English and in Thai for Executive Summary
within one (1) month after the receipt of the comments on the Draft Final Report.

VII. UNDERTAKING OF THE GOVERNMENT OF THAILAND

1. RTG shall accord privileges, exemptions, and other benefits to the Team, in accordance with the Agreement of Technical Cooperation between GOJ and RTG.



2. To facilitate smooth conduct of the Study, RTG shall take the following necessary measures :

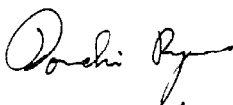
- (1) to secure the safety of the Team in Thailand,
- (2) to permit the members of the Team to enter, leave and sojourn in Thailand for the duration of their assignment therein, and exempt them from foreign registration requirements and consular fees,
- (3) to exempt the members of the Team from taxes, duties, fees and any 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 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 Thailand from Japan in connection with the implementation of the Study,
- (6) to secure permission for entry into private properties and restricted areas for the 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. RTG 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 Japanese study team.

4. NESDB shall act as the counterpart agency to the Team and also as a coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.

5. NESDB shall provide, at its own expense, the Japanese study 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, and
 - (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 study team to Thailand, and
- (2) to pursue technology transfer to the Thailand counterpart personnel in the course of the Study.

IX. CONSULTATION

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

Ponchai Ryan

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Appendix

Penelina Reyes

Tentative Study Schedule

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Work in Thailand	■				■					■				■					
Work in Japan	□				□					□					□			□	
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

24

MINUTES OF MEETING

ON

THE SCOPE OF WORK

FOR

THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN
FOR THE NORTHEASTERN BORDER REGION
IN THE KINGDOM OF THAILAND

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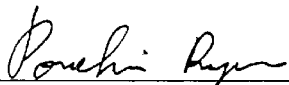
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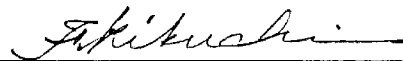
JAPAN INTERNATIONAL COOPERATION AGENCY

BANGKOK

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DR. PORNCHAI RUJIPRAPA
DEPUTY SECRETARY-GENERAL,
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AND SOCIAL DEVELOPMENT BOARD



MR. FUMIO KIKUCHI
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 "RTG"), the Preparatory Study Team of Japan International Cooperation Agency (hereinafter referred to as "JICA") visited RTG from November 16th to November 29th, 1999.

The Team exchanged views and had a series of discussions on the Scope of Work for the Study on the Integrated Regional Development Plan for the Northeastern Border Region (hereinafter referred to as "the Study") with the representatives of Office of the National Economic and Social Development Board (hereinafter referred to as "NESDB").

Apart from finalizing the Scope of Work, both sides agreed or confirmed the following points for the smooth implementation of the Study

II. DISCUSSION AND CONFIRMATION

1. Study Area

Thai side requested that the Study Area should include Sakon Nakhon and Kalasin provinces in addition to Nakhon Phanom and Mukdahan Provinces originally requested in order to consider the possible development potentials in relation with the East-West Transport Corridor.

JICA side agreed on this request.

2. Steering Committee

Thai side suggested that the function of the technical committee should be included in the steering committee.

Both sides agreed on this matter. (See APPENDIX-A)

(1) Thai side confirmed to establish the steering committee in advance of the commencement of the Study. Deputy Secretary-General of NESDB will chair the steering committee and the members of the committee will be the representatives such as the directors of the each related government agencies, private sectors, etc.

3. Contents of the Study

(1) Thai side requested to add "(3) Economic activities development" into the section of "Development of a Plan of Action" proposed by JICA.

JICA side agreed on this request.

(2) Thai side requested to pay serious attention to the industrialization at the Study Area.

JICA side replied to give careful consideration on this matter during the course of the Study.

4. Reports

Thai side gave requests concerning with the contents and volumes of the reports and both sides agreed them as follows:

(1) An Inception Report will be submitted within one month after the commencement of the Study.

(2) Final reports will be prepared for 100 copies in English.

(3) Executive Summary will be prepared for 100 copies each in English and in Thai. NESDB will verify the Thai version Reports.

5. Workshops and Seminars

Thai side requested to organize workshops and seminars in Thailand and Lao PDR separately for the purpose of domestic public consultation.

JICA accepted this request.



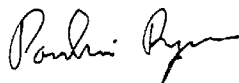
6. Office Spaces

Thai side agreed to provide office spaces in Bangkok, however, explained physical difficulties in providing office facilities in the Study Area.

JICA side agreed on this matter.

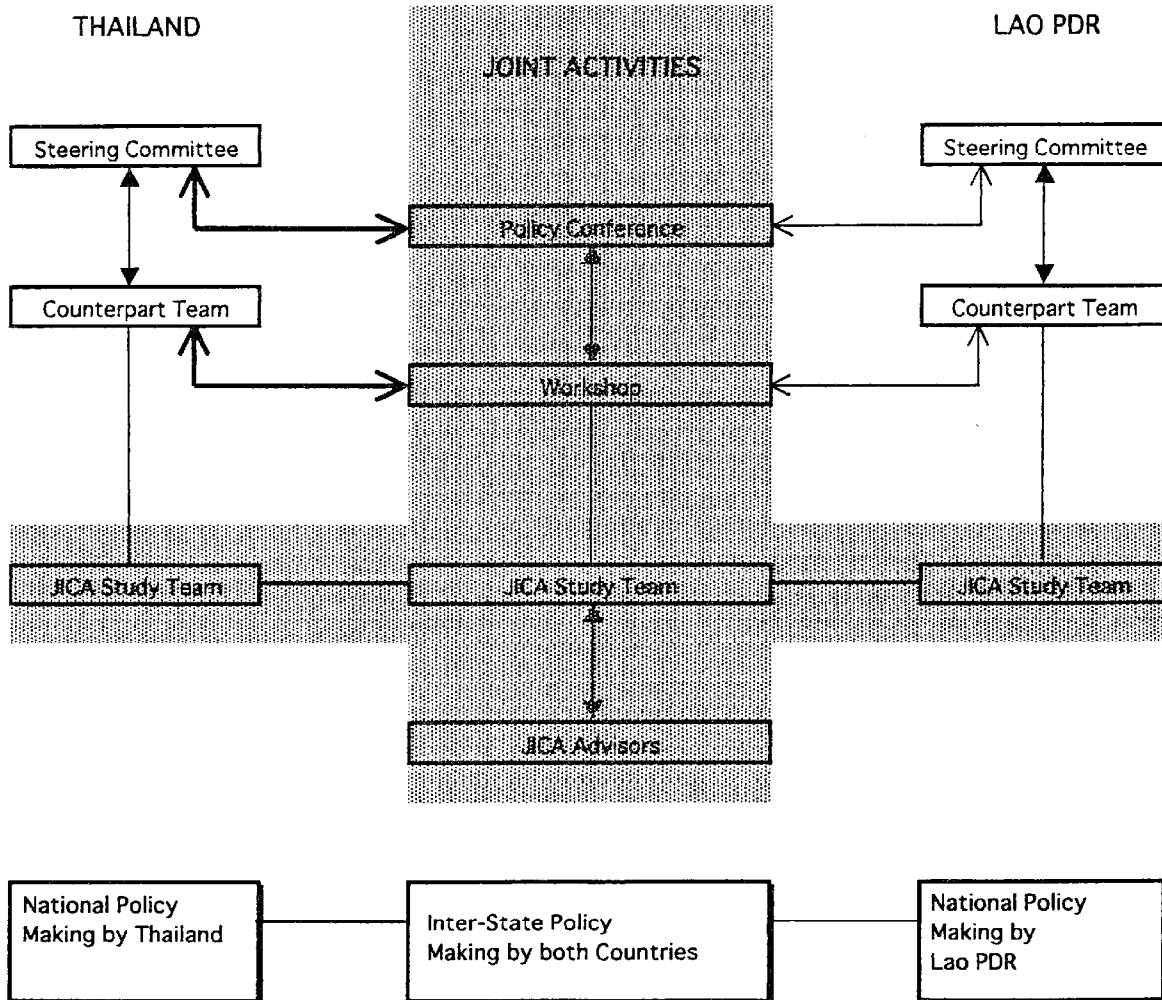
7. Counterpart

Thai side promised that NESDB and Local governments would provide counterpart personnel to the Study Team.



APPENDIX-A

The Operation System of the Study



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APPENDIX-B

LIST OF ATTENDANTS

THAI SIDE (NESDB)

(OFFICE OF THE NATIONAL ECONOMIC AND SOCIAL DEVELOPMENT BOARD)

Dr. PORNCHEI RUJIPRAPA	DEPUTY SECRETARY-GENERAL
Mr. DAMRONG SAENGKAWHEELERT	DEPUTY DIRECTOR
Mr. SOMBOON MEKPAIBOONVATTANA	SENIOR POLICY AND PLAN ANALYST
Ms. SUMITRA POOLTONG	POLICY AND PLAN ANALYST
Mr. CHOEN KRAINARA., M.SC.	POLICY AND PLAN ANALYST
Mr. ITSUSHI TACHI	JICA EXPERT attached to NESDB

JAPANESE SIDE (JICA PREPARATORY STUDY TEAM)

Mr. FUMIO KIKUCHI	LEADER
Mr. NOBUHIRO KOYAMA	MEMBER
Mr. TOMOHIRO ONO	MEMBER
Mr. MASATO KOTOH	MEMBER
Mr. SATOSHI YOSHIZAKI	MEMBER
Mr. TOSHINORI TODA	MEMBER

JICA THAILAND OFFICE

Mr. MOTOYUKI UEGAKI	ASSISTANT RESIDENT REPRESENTATIVE
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Pornchai Rujiprapa

**Required Data and Questionnaire
for the
Study on Preparation of the Regional Development Plan for the Northeast Border Region
in Thailand**

- Please mark ○ for the Data/Item in the "Availability" which is available
- Please fill the information column (place, source, date, title, language, etc.) for the available data
- Please mark × for the Data/Item in the "Availability" which is not available

November, 1999

Japan International Cooperation Agency

Essential Information for the Discussion

Please prepare following materials for the discussion and reconnaissance

- • Topographic map and Road map of Northeast Border Region (Scale 1:500,000 and 100,000)
- • Organization chart of the NESDB
- • Name and Position of the Related Organization for the Study
- • Regional Development Plan in Northeast Border Region
 - Position (Status) of the Northeast Border Region in the 8th National Development Plan
 - Position (Status) of the Northeast Border Region in GMS
 - Covered fields of the project for the Border Towns Urban Development Project provided by ADB
 - Policy system of development cooperation with Savannaket Region
 - Reletative Policies & Laws for Foreign trading (ex. Froreign exchange control law, Foreign trade definitions, etc.)
 - Governmental Policy for Foreign Investment
 - Governmental Policy for Special Industrial Free Zone
 - Recent data for trading with Lao PDR & Viet Nam
 - Present problems for cross-border trading
 - Present problems for Local Government Development Policies and Capability

	Items	Availability	Place of data	Source	Title	Published Date	Language	Note
1	General Information							
1	Development Plan							
	•National Development Plans	○	バンコク	収集資料	第8次経済社会開発計画		英語	
	•Sectional Development Plans							
	Transport							
	Agricultural and fishery							
	Industrial development							
1	Mining							
	Tourism	○	バンコク	収集資料	Northeast Tourism Development Plan		英語	
1	Others							
2	Recent "Various indicators related to provinces and regions in Thailand"	○	バンコク	NESDB				入手可能
3	Recent "Statistical year book of Thailand"	○	バンコク	収集資料	Thailand in Figures 1999		英語	
4	National budget	○	バンコク	NESDB				入手可能
	-Annual budget							
	•Public investment							
5	Regional development plans	○	バンコク	収集資料	Strategic Development Framework for the Northeastern Region		タイ	
6	Private investment trends							
	-Overall trends by sector	○	バンコク	NESDB、JETRO			英語	入手可能
	-Laws and regulations	○	バンコク	NESDB、JETRO			英語	入手可能
	-Incentives							
7	Activities of other aid agencies (WB, ADB, etc.)	○	バンコク	収集資料	Border Towns Urban Development Project		英語	
	-aid policies toward Thailand and the study area							
8	Land use							
	-Current land use, pattern, areas by use							
	-Land use plan							

	Items	Availability	Place of data	Source	Title	Published Date	Language	Note
II	Social Data							
1	Population by district, municipality and village in the study area	○	バンコク	NESDB				入手可能
2	Household by district, municipality and village in the study area	○	バンコク	NESDB				入手可能
3	Migration / emigration among rural and urban areas, provinces and regions	○	バンコク	NESDB				入手可能
4	Labor force and unemployment in the study area	○	バンコク	NESDB				入手可能
5	Rate of literacy and vocational and higher education facilities by provinces	○	バンコク	NESDB				入手可能
6	Average family income and expenditures	○	バンコク	NESDB				入手可能
7	City and town planning maps of the study area	○	ムクダハン	収集資料	Comprehensive Plan of Mukdahan			
8	Public health facilities of the study area							
9	Public housing programs of the study area							
10	Poverty census of the study area	○	バンコク	UNICEF				入手可能

	Items	Availability	Place of data	Source	Title	Published Date	Language	Note
III	Economical data in the Study area							
1	Agriculture and Forestry sectors : resources, production, distribution, employment and ongoing and planned projects	○	バンコク	NESDB				入手可能
2	Fishery : catches, species, employment and ongoing and planned projects	○	バンコク	NESDB				入手可能
3	Mining : resources, production, distribution and number of the enterprises and employment, ongoing and planned	○	バンコク	NESDB				入手可能
4	Manufacturing : type of activity, location, number of enterprises, production and employment, ongoing and planned projects	○	バンコク	NESDB				入手可能
5	Commerce : type of activity, location, number of enterprises, production and employment, ongoing and planned projects	○	バンコク	NESDB				入手可能
6	Trading : type of activity, location, number of enterprises, production and employment, ongoing and planned projects	○	バンコク	NESDB, JETRO				入手可能

	Items	Availability	Place of data	Source	Title	Published Date	Language	Note
IV	Transportation							
1	Transportation data							
	Administration of Transport Sector	○	バンコク	MOTC	正式な要請が必要			
	Authorities and agencies concerned	○	バンコク	MOTC				
	Organization charts and number of staff, equipment	○	バンコク	MOTC				
	Functions and Responsibilities	○	バンコク	MOTC				
	Development policies	○	バンコク	MOTC				
2	Networks of roads, ports and water transport, air and railways							
	Traffic volume, both passengers and cargoes, by modes							
	Traffic forecasts, both passengers and cargoes, by modes							
	Traffic flows							
	Facilities, capacities and operating conditions							
	Car registration data	○			Statistic Data 1999	1999	英語	入手できず
	Expenditure / cost of infrastructure, development construction and maintenance							
	Relevant studies, e.g. national transport and highways	○	バンコク	DOH				

	Items	Availability	Place of data	Source	Title	Published Date	Language	Note
V	Roads							
1	Roads							
	Highway and road network plan and map	○		DOH				
	Nation wide	○		収集資料	Thailand			
	Region wide	○		収集資料	Northeastern Highway			
	Study area wide	○		収集資料	同上			
2	Road and traffic inventory (study area)	○	バンコク	DOH	Average Annual Daily	1998	英語	入手可能
	Nation Summary	○			Traffic on Highway		タイ語	(手紙が必要)
	Regional Summary	○						
	Study area	○						
3	Road Improvement plan							
	National policy	○			第8次国家計画の部分		英語	
	Regional improvement plan	○			第2次道路拡幅計画	1999	タイ語	入手可能
	Study area	○		JICA	東北部道路網整備計画調査	1985		
4	Road Maintenance Plan	○	バンコク	DOH				入手可能
	National policy							(手紙が必要)
	Regional maintenance responsibility							
	Study area maintenance responsibility							
5	Present road improvement and maintenance	○	バンコク	DOH				入手可能
	On-going road improvement projects							(手紙が必要)
	Present road maintenance capacity, budget, staff, equipment							
6	Organization functions and responsibilities	○	バンコク	DOH				入手可能
	Regional administration							(手紙が必要)
	Province administration							
7	Local construction industries: Register list	○	バンコク	DOH				入手可能
8	Construction labor markets	不明						
	Operators and mechanics							
	Skilled labors							

	Items	Availability	Place of data	Source	Title	Published Date	Language	Note
VI	Water and sanitary							
1	Development plan for water and sanitation		バンコク	PWO				
	National policy and development plan							
	Regional development plan							
	Study area development plan							
2	Present situation		バンコク	PWO				
	Towns	○	各市					
	Rural areas	○	各県					
3	Authorities and Organization		バンコク	PWO				
	Organization chart and functions and responsibilities	○	バンコク					
	Two towns	○	各市					
	Rural areas	○	各県					
4	Management and maintenance capacity			PWO				
	Present operation							
	Constraints and improvement plan							
5	Other aids agencies for water and sanitation			DTEC				
	Donors							
	NGOs							

	Items	Availability	Place of data	Source	Title	Published Date	Language	Note
VII	Tourism resources data							
1	Tourism development policies	○	バンコク	TAT				
	Authorities / agencies in charge (responsibilities, policies, activities, budgets, subsidies, etc.)			収集資料	Statistic Report	1998	英語	
	Current tourism projects and programs			収集資料	Thailand Tourism: Vision 2012			
	Laws, regulations and guidelines					1998	英語	
	Incentives for the private sector							
	Marketing and promotion for tourism in Thailand							
2	Distribution maps for tourist resources and facilities (visitor attractions, unique monuments, spectacular features, dramatic landscapes, etc.)	○		収集資料	The Northeast	1998	英語	
3	Accessibility of main tourism recreational sites	○		収集資料	Northeast Tourism Development Plan	1998	英語	
4	Capacities of main tourist or recreational sites	○						
5	History and legends	○						
6	Traditions	○						
7	Cyclical attractions (Festivals, carnivals, etc.)	○						
8	Fishing / hunting areas	○						
9	Recreational facilities	○						
10	Catering facilities	○						
11	Sports facilities	○						
12	Manpower available for tourist services and training facilities	○						
13	Hotels : number, capacities and occupancy rates	○						
14	Transport services	○						
15	Tourists statistics on foreign arrivals : number of travelers, country origin, range of expenditures, type of travel, main destinations, means of transport, duration of stay, projections	○						
16	Tourist statistics on domestic travelers : number of travelers, range of expenditures, type of travel, main destinations, means of transport, duration of stay, projections	○						
17	Market information	○						
	Surveys and assessments of tourism areas in Thailand and around the northeast border area							
	Analysis of competitive resorts in other countries							

	Items	Availability	Place of data	Source	Title	Published Date	Language	Note
VIII	Natural conditions in the northeast border area							
1	Meteorological conditions in each prefecture : Record of rain, snow, wind, humidity, temperature and etc. for last 30 years	○	バンコク	Meteorological Department				入手可能
2	Topographic Conditions : Topographic map (Scale 1:50,000 to 200,000) , list of available topographic map and aero-photograph	○	バンコク					
2	Geological conditions : Geological map and Geological investigation (Boring, laboratory test, etc.) data	○	バンコク					
3	River conditions	○	バンコク					
4	Disaster record : Earthquake, Landslide, Flood, and etc.	不明						

	Items	Availability	Place of data	Source	Title	Published Date	Language	Note
IX	Environmental conditions in the northeast border area	○	バンコク	環境庁情報課				入手可能
1	Environmental protection area by law and regulation if any	○						(手紙が必要)
2	Precious animals, plants historic spots, landscape, etc. if any	○						
3	Environmental endangered area and hot spot if any	○						
4	Data on surface water groundwater, air, soil, bottom materials, land subsidence, noise and vibration	○						
5	Laws and regulations for environmental regulation	○						
6	Standards for water quality, air quality, bottom materials, noise and vibration	○						
7	Responsible ministry or agency	○						

	Items	Availability	Place of data	Source	Title	Published Date	Language	Note
X	Consultants and Surveyors	○	バンコク	NESDB	巻末資料			
1	List of consulting firms for environmental survey, geological survey and topographic survey	○						
2	List of consulting firms in transportation, traffic volume, market, private investment, industrial trend and social survey	○						
3	Cost of investigation and survey	○						
	Boring, laboratory test, in-situ test, topographic survey and etc.	○						
	Environmental survey (water quality, soil quality, air quality, plant, animals and etc.)	○						
	Traffic volume survey	○						
	Market survey, private investment survey	○						
	Social survey, industrial trend survey	○						

	Sector	Present Situation	Remedial Measures	Review
1	Roads			
2	Water Supplies			
3	Wastewater			
4	Solid Waste			
5	Truck Terminals			
6	Bus Terminals			
7	Border Post			

8	Industrial Zones			
9	Town Market			
10	Upgrading Area			
11	Flood control and drainage			
12	Tourism attraction			
13	Power			
14	Tele-- communication			

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