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1. 要請書 (TOR)

Lao People's Democratic Republic

Terms of Reference

on

Integrated Regional Development Plan

for

Savannakhet and Khammouan Provinces

July 1997

1 Background

Regional Perspective of the Development

Cooperation among Lao PDR, Thailand, Vietnam, China and Myanmar on regional development has progressed significantly in the past years within the framework of Greater Mekong Sub-regional Cooperation (GMS). Construction of road network beyond borders was initiated to promote trade and economic activities among related countries including East West Transport Corridors linking northeastern Thailand, central Lao PDR and central Vietnam.

As a new member of ASEAN Lao PDR is expected to play a greater role in facilitating flows of goods, services, and people among Lao PDR, Thailand, and Vietnam. In particular, Savannakhet and Khammouan Provinces, which share the border with Vietnam and Thailand, have a geographical advantage to mobilize resources in Vietnam and Thailand and to have access to international market through national road No.12, 8, and 9 up to ports in Vietnam. Thus two provinces have a potential to develop its own region and will contribute to vitalize regional economy as a central part of the East West Transport Corridor.

Development Potential of Savannakhet and Khammouan Provinces

Savannakhet province is main rice production area and also rich in mineral resources with potential for industrial development. The area as a whole is expected to become a gateway of exporting agricultural, industrial and commercial products and of importing raw materials and semi-processed goods for re-export through Da Nang.

Savannakhet city is expected to provide central functions for the entire area. The Savannakhet city has a population of 58,323 (1995), the largest in the central region of Lao PDR. Sixteen private foreign companies have been present in the fields of construction materials, garment, confectionery, tobacco, mineral exploration, groundnut, electric fan assembly, hotel, and marketing. Major exporting items are garments, electric fans, wood products, and gypsum.

Khammouan Province is expected to be a base of the industrial development of the country. The Government of Lao PDR has been considering a project to establish a "Industrial Zone" in Khammouan to promote transport-export industries such as, wood products, construction materials. At present, plywood factory is the top earner of foreign currency. Limestone mountains are easily accessible for exploration and could turn into cement. Attractive tourists resort mountain spots formerly utilized by French are scattered on limestone mountains along Road 12.

Need for an Integrated Regional Development Master Plan

In achieving the potential development of Savannakhet and Khammouan taking account of the regional perspective, Integrated Regional Development Master Plan is needed. The Master Plan will establish strategies and propose measures for effective provision of infrastructure, promotion of agriculture, industry and tourism, linkage among various economic activities, balanced provision of social services in rural and urban areas, environmental resource management, human resources development etc.

The following concerns should be addressed by the Master Plan:

- (1) Enhancement of urban and industrial functions of Savannakhet city and Thakhek city through improved provision of urban infrastructure, and spatial structure to make both cities effective industrial and trade center in the central region of Lao PDR;
- (2) Clarification and strengthening of the functions in the provinces among Lao PDR, Thailand, and Vietnam in terms of promoting internal and external flows of goods, services and people;
- (3) Improvement of the imbalance between rural and urban areas in terms of accessibility to basic human needs for water, electricity, health, school, road, and market;
- (4) Sustainable use of natural resources vis-a-vis adequate environmental protection and conservation;
- (5) Participatory development with people empowerment through poverty alleviation, better provision of basic human needs and skills training;
- (6) Strengthening institutional measures to promote investment ;
- (7) Strengthening the manpower of the Government, provincial officer;
- (8) Favorable tariff rates, simplified immigration rules and regulations according to those in force in Lao PDR ;and
- (9) Technical training for agriculture, industry and marketing will be offered.

Existing Plans and Projects

The medium-term socio-economic development plans 1996-2000 of Savannakhet and Khammouan are in accordance with the National Socio-Economic Development Plan objectives. Provincial need for development was taken into account to the extent that provincial priority is consistent with the national priority.

The plan has established development objectives and strategy, identified development zones with formulated core programs and projects in agriculture, industry and commerce, and infrastructure. The following is a list of the core programs:

- (1) The increase of rice production through irrigation, production of all kinds of beans and groundnut, and tobacco, vegetables and other cash crops are being promoted.
- (2) In Industry and Commerce, training for personnel in traditional crafts and light manufacturing skills are being offered with some skills of marketing and exporting.
- (3) In Infrastructure, maintenance of provincial roads is being made. Foreign assistance in education and health is being implemented in rural areas.

2 Objectives

A study is proposed to prepare the Integrated Regional Development Master Plan (hereinafter referred to as " the Master Plan"). The Master Plan will cover the period to the year 2020.

The objectives of the master plan are to :

- (1) Formulate a master plan for the regional integrated development area that includes:
 - (a) attractive industrial zone in Khammouan and Savannakhet Provinces
 - (b) transport terminals for carriers and tourists

- (c) human resource development plan including technical training center for agriculture, industry and commerce, and tourism
- (d) institutional measures to strengthen development administration and to promote private investment, foreign and domestic.
- (e) rural development and poverty alleviation program.
- (f) national resources exploitation with due considerations of the environment aspects for sustainable development
- (2) Identify phasing plans and priority projects for proposed master plan,
- (3) Transfer technical know-how to counterpart personnel.

3 Study Area

The study area under consideration constitute Savannakhet and Khammouan Provinces along the East West Transport Corridor. The total population is 946,000 in 1995 with land area of 38,000 square kilometers, consisting of low agricultural plane, middle vegetation and fruits zone, and grassy, hilly and mountainous zone.

4 Scope of Work

Study Structure

The Study consists of four (4) parts corresponding to the objectives:

- Part 1 Review of the existing development framework plan and establish development concept plan.
- Part 2 Formulation of Master Plan
- Part 3 Identification of Phasing Plan and Priority Programs and Projects
- Part 4 Recommendations for Institutional Measures

The existing plan will be reviewed, and an initial draft of the Master Plan will be prepared followed by project prioritization. The outcome of Part 1 and Part 2 will be a draft master plan for the Master Plan of the study area.

Tasks

Part 1; Review of the existing framework plan and establish development concept plan:

- (1.1) Review development potential and existing programs
- (1.2) Formulate socio-economic development framework
- (1.3) Establish spatial development framework with identification and characterization of development zones
- (1.4) Prepare development scenarios with development phasing
- (1.5) Formulate development objectives and strategy and sector priority.

Part 2; Formulation of Master Plan :

- (2.1) Establish spatial development plan,
- (2.2) Prepare infrastructure development plan,
- (2.3) Prepare urban and rural development plan,
- (2.4) Prepare human resources development plan,
- (2.5) Prepare regional development master plan,

Part 3 Identification of Phasing Plan and Priority Programs and Projects

- (3.1) Establish methodology and criteria for project evaluation
- (3.2) Evaluate programs and projects on a broad basis including economic, financial, social, environmental and institutional aspects
- (3.3) Assess programs and projects priority on the basis of evaluation under

development scenario

Part 4; Recommendations on institutional measures to strengthen development administration of Lao PDR and to promote domestic and foreign investment:

- (4.1) Examine existing institutions of finance and administration
- (4.2) Analyze financial and administrative capacities
- (4.3) Analyze additional sources of development finance, if any
- (4.4) Recommend measures for improving financial and administrative capabilities of attracting foreign private investment

5 Organization

A steering committee will be organized under chairmanship of the State Planning Committee (SPC) consisting of representatives from all the related government agencies and the provinces to provide general direction and guidance to the study. Technical committee will be established at provincial level to provide the technical support to the steering committee and JICA study team.

6 Input

6.1 Expertise Requirements

The study shall be carried out by a team of experts in close collaboration with Laos counterparts. The following expatriate experts will be required for the study period:

- 1) Team leader/Urban and Regional Planning and Development
- 2) Regional Economist
- 3) Urban Planner
- 4) Land Use Planner
- 5) Agricultural Expert
- 6) Industrial Planner
- 7) Tourism Planner
- 8) Water Resources Planner
- 9) Infrastructure Engineer
- 10) Power and Energy Expert
- 11) Institution Expert
- 12) Social Development Planner
- 13) Environmentalist
- 14) Project Economist

6.2 Study Schedule

The study shall be carried out in about 18 months. Part 1 for the review of framework plan is carried out in 5 months, while Part 2 and Part 3 for the formulation of master plan and assessment of project priority are undertaken during the subsequent 8 months. Part 4 for recommendation on institutional measures and preparation of final report shall be conducted throughout the remained study period.

7 Output

Reporting

During the study, 6 reports will be prepared. Submission schedule and main contents of each report are as follows:

<u>Report</u>	<u>Main Contents</u>	<u>Submission Schedule</u>
Inception Report	Study approach, method and schedule	Month 1
Progress Report 1	Prepare development concept plan	Month 5
Interim Report	Formulate master plan	Month 10
Progress Report 2	Identification of Phasing Plan and Priority Projects	Month 13
Draft Final Report	Recommendation on institutional measures Investment Plan	Month 15
Final Report	All of the above	Month 18

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

SCOPE OF WORK

FOR

THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN
FOR SAVANNAKHET AND KHAMMOUAN REGION
IN LAO PEOPLE'S DEMOCRATIC REPUBLIC

AGREED UPON BETWEEN

STATE PLANNING COMMITTEE

AND

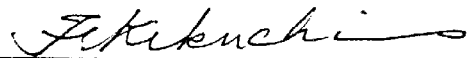
JAPAN INTERNATIONAL COOPERATION AGENCY

VIENTIANE

NOVEMBER 25th, 1999



Dr. SOUPHANH KEOMIXAY
DIRECTOR GENERAL,
NATIONAL ECONOMIC RESEARCH
INSTITUTE,
STATE PLANNING COMMITTEE



Mr. FUMIO KIKUCHI
LEADER,
PREPARATORY STUDY TEAM,
JAPAN INTERNATIONAL
COOPERATION AGENCY

I. INTRODUCTION

In response to the request of the Government of the Lao People's Democratic Republic (hereinafter referred to as "GOL"), the Government of Japan (hereinafter referred to as "GOJ") has decided to conduct "the Study on The Integrated Regional Development Plan for Savannakhet and Khammouan Region in the Lao People's Democratic Republic" (hereinafter referred to as "the Study"), in accordance with the relevant laws and regulations in force in Japan.

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

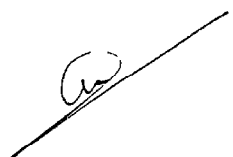
The State Planning Committee (hereinafter referred to as "SPC") shall act as the counterpart agency to the Japanese study team (hereinafter referred to as "the Team") and also as the coordinating body in relation with the other relevant organizations for the smooth implementation of the Study.

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 (Savannakhet and Khammouan Provinces) toward the year 2020, in view of the region's relationship with Greater Mekong Sub-region (GMS) and its linkage with the cross-border region of Thailand 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 Savannakhet and Khammouan 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 the Lao People's Democratic Republic (hereinafter referred to as "Lao PDR")
- (2) Analysis of current situations and issues of Lao PDR (including structural reform toward market economy, 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 the cross-border region of Thailand (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

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 the cross-border region of Thailand 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 the cross-border region of Thailand 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



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 GOL.

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.
GOL 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 Lao for Executive Summary
within one (1) month after the receipt of the comments on the Draft Final Report.

VII. UNDERTAKING OF THE GOVERNMENT OF LAO

1. GOL shall accord privileges, exemptions, and other benefits to the Team.
2. To facilitate smooth conduct of the Study, GOL shall take the following necessary measures :



- (1) to secure the safety of the Team in Lao PDR,
- (2) to permit the members of the Team to enter, leave and sojourn in Lao PDR 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 Lao PDR 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 Lao PDR 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 if it is necessary,
- (7) to secure permission for the Team to take all available data and documents (including maps, photographs) related to the Study out of Lao PDR to Japan, and
- (8) to provide medical services as needed. Its expenses will be chargeable on the members of the Team.

3. GOL 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. SPC 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. SPC 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,
 - (2) counterpart personnel,
 - (3) suitable office space with necessary equipment in Vientiane and at the site of the Study,
- 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 Lao PDR, and
- (2) to pursue technology transfer to the Lao counterpart personnel in the course of the Study.

IX. CONSULTATION

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



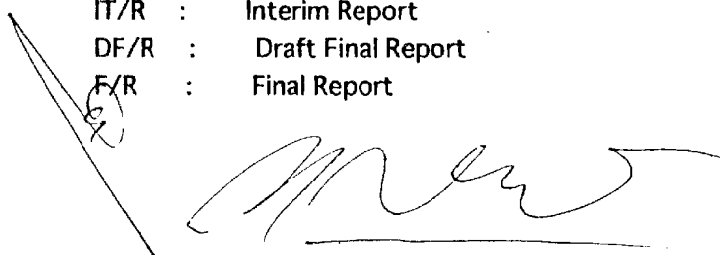
Appendix

Tentative Study Schedule

Month		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
Work in Lao PDR		■					■					■					■			
Work in Japan		□				□					□					□			□	
Report		△ IC/R			△ P/R							△ IT/R					△ DF/R		△ F/R	

[Legend]

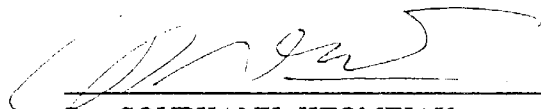
- IC/R : Inception Report
- P/R : Progress Report
- IT/R : Interim Report
- DF/R : Draft Final Report
- F/R : Final Report




MINUTES OF MEETING
ON
SCOPE OF WORK
FOR
THE STUDY ON THE INTEGRATED REGIONAL DEVELOPMENT PLAN
FOR SAVANNAKHET AND KHAMMOUAN REGION
IN LAO PEOPLE'S DEMOCRATIC REPUBLIC

AGREED UPON BETWEEN
STATE PLANNING COMMITTEE
AND
JAPAN INTERNATIONAL COOPERATION AGENCY

VIENTIANE
NOVEMBER 25th, 1999



Dr. SOUPHANH KEOMIXAY
DIRECTOR GENERAL,
NATIONAL ECONOMIC RESEARCH
INSTITUTE,
STATE PLANNING COMMITTEE



Mr. FUMIO KIKUCHI
LEADER,
PREPARATORY STUDY TEAM,
JAPAN INTERNATIONAL
COOPERATION AGENCY

I . INTRODUCTION

In response to the request of the Government of the Lao People's Democratic Republic, the Preparatory Study Team of the Japan International Cooperation Agency (hereinafter referred to as "JICA") visited the Lao People's Democratic Republic (hereinafter referred to as "Lao PDR") from November 24th to November 30th, 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 Savannakhet and Khammouan Region in the Lao PDR" (hereinafter referred to as "the Study") with the representatives of State Planning Committee (hereinafter referred to as "SPC").

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

Lao side requested that the Study Area should include Khammouan province in addition to Savannakhet province 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

Lao side confirmed to establish the steering committee in advance of the commencement of the Study. Director General of SPC 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) Lao side requested to pay attention to the following issues.

- a. Tourism Development
- b. Human Resource Development
- c. Private Sector Involvement
- d. Mining and Industry Development
- e. Environmental Management



JICA side replied to give careful consideration on these issues during the course of the Study.

- (2) Lao side requested to pay attention to the following matters during the course of the Study.
 - a. a possible change of circumstances during the period of the Study of eighteen months
 - b. sustainability of the Master Plan (connected to a.)
 - c. public participation including local government and people in the Study area

JICA side replied to give careful consideration on these matters during the course of the Study.

4. Reports

Lao side requested to amend the contents and volumes of the reports as follows and JICA side agreed.

- (1) Inception Report will be submitted within one month after the commencement of the Study.
- (2) Final Report will be prepared for 100 copies in English.
- (3) Executive Summary will be prepared for 100 copies each in English and in Lao. SPC will verify the Lao version Reports.

5. Workshops and Seminars

Lao side requested to organize workshops and seminars in Lao PDR and in Thailand separately for the purpose of domestic public consultation. They also requested JICA to bear the expenses organizing them.

JICA accepted this request.

6. Office Spaces

Lao side agreed to provide office space for accommodating about ten study team members to work in Vientiane and enough office space at the Study Area, however, explained financial difficulties in providing such office equipment as air-conditioners, computers, telephones, faxes, and copy machines, etc.

JICA side accepted this matter.

7. Counterpart

Lao side promised that SPC and Local governments would provide counterpart personnel to the Study Team.

JICA side accepted the request.

8. The Study on the Special Economic Zone

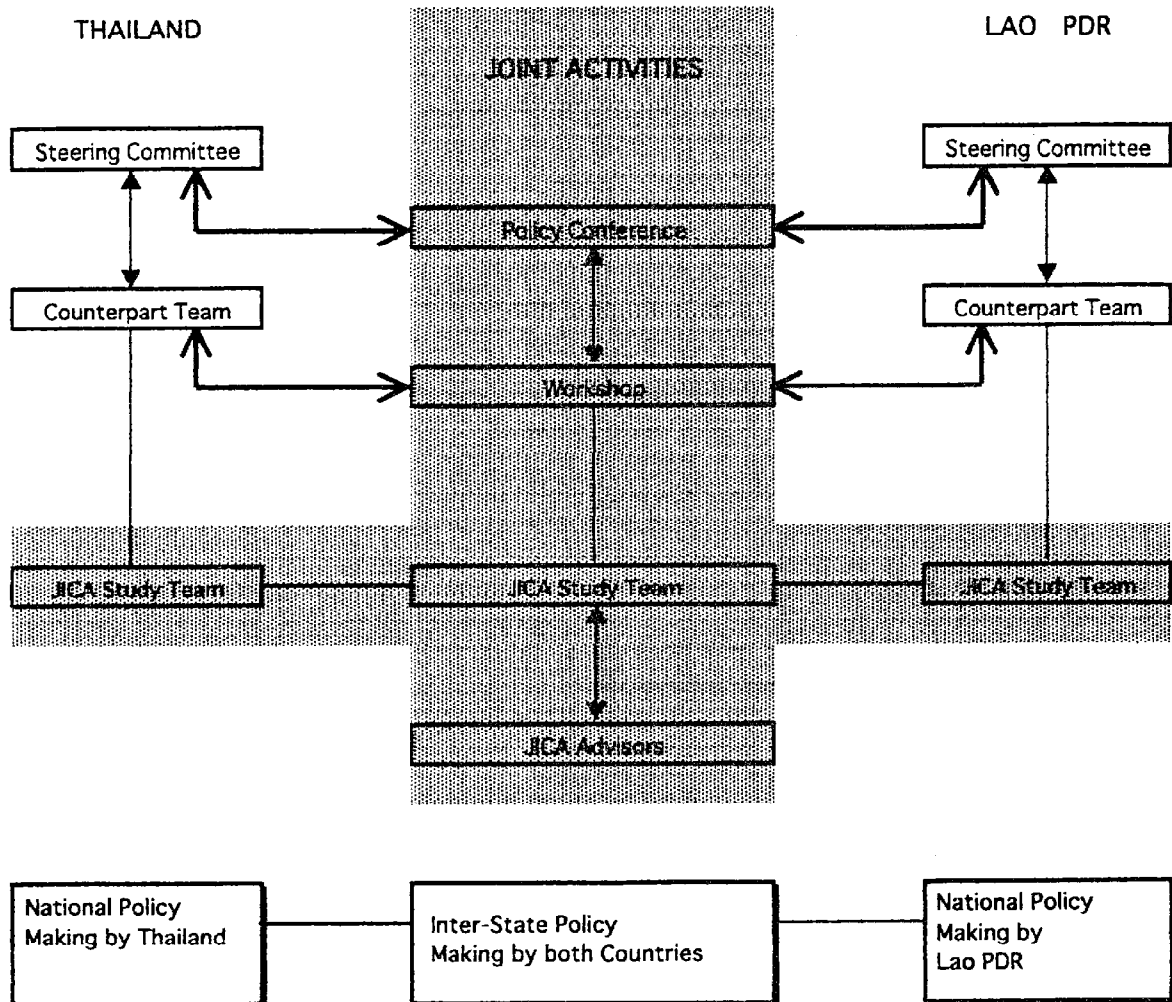


A preparatory study team for the Study on the Special Economic Zone will be sent to Lao PDR in March 2000, and its full-scale study will start in June. The Integrated Regional Development Plan for Savannakhet and Khammouan Region and the Study on the Special Economic Zone would be implemented in close coordination.

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APPENDIX-A

The Operation System of the Study



APPENDIX-B

LIST OF ATTENDANTS

LAO SIDE

(STATE PLANNING COMMITTEE)

Dr. SOUPHANH KEOMIXAY (SIGNER)

DIRECTOR GENERAL, NATIONAL ECONOMIC RESEARCH INSTITUTE

Dr. KHAMLIEN PHOLSENA

DEPUTY DIRECTOR GENERAL, DEPARTMENT OF PLANNING

Ms. SINGKHAM KHONGSAVANH

DEPUTY DIRECTOR GENERAL, DEPARTMENT OF PLANNING

Ms. HOME VONGXAY

DIRECTOR OF INTERNATIONAL ECONOMIC RELATION DIVISION

(MINISTRY OF INDUSTRY AND HANDICRAFT)

Mr. CHAREUNE INTHAVONG

DEPUTY DIRECTOR of CABINET MIH

(MINISTRY OF COMMERCE AND TOURISM)

Mr. NANTA SANOUVONG

OFFICER, MINISTRY OF COMMERCE AND TOURISM

Mr. SHIGERU EBIHARA

JICA EXPERT, INSTITUTE FOR TRADE AND TOURISM

(COMMITTEE FOR INVESTMENT AND COOPERATION)

Dr. SOULASITH OUPRAVANH,

DEPUTY DIRECTOR GENERAL, OFFICE OF INTERNATIONAL COOPERATION

Mr. THONGSAY SAYAVONGKEOMALY

DEPUTY DIRECTOR, INVESTMENT PROMOTION & INFORMATION DIVISION

Mr. HAJIME WATANABE

JICA ADVISOR, OFFICE OF INTERNATIONAL COOPERATION



(MINISTRY OF COMMUNICATION, TRANSPORT, POST AND CONSTRUCTION)

Mr. HIROTADA MATSUKI

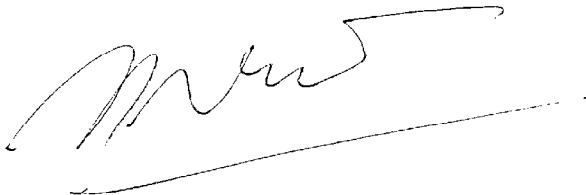
JICA EXPERT

JAPANESE SIDE (JICA PREPARATORY STUDY TEAM)

Mr. FUMIO KIKUCHI	LEADER (SIGNER)
Mr. NOBUHIRO KOYAMA	MEMBER
Mr. TOMOHIRO ONO	MEMBER
Mr. SHIGEHISA MATSUMURA	MEMBER
Mr. HITOSHI SAKAI	MEMBER
Mr. TAKAO MITSUISHI	MEMBER
Mr. HIROHIKO TAKATA	OBSERVER

JICA LAOS OFFICE

Mr. MIKIO MASAKI	PROJECT FORMULATION ADVISOR
Mr. HATSADONG CHANTHAVONGSA	PROGRAM OFFICER
Mr. SOPHONH KOUSONSAVAT	PROGRAM OFFICER



ラオス国サバナケット及びカモアン地域総合開発調査

(事前調査 S/W 協議)

Questionnaire

(インフラ・環境関連)

片平エンジニアリング、インターナショナル

三石 隆雄

	ITEMS	AVAILABILITY	PLACE OF DATA	SOURCE	TITLE	PUBLISHED DATE	LANGUAGE	NOTE
IX	Natural Condition (whole country and Savannakhet/Khammouan)							
1.	Meteorological conditions in the country and Savanakheth	Y	Department of Meteorology, MOAF				Lao	Raw Data
	Record of Rain, Wind, Humidity, Temperature and etc. for last 30 years	Y	National Statics Center, SPC	MOAF	Basic Statistics 98	May 18,1999	English/Lao	
2.	Topographic conditions	Y	Mapping Center, National Geographic Department					Prior clearance from government agency is required
	Topographic map (Scale 1:50,000 to 200,000)							
	Aero-photograph	Y	National Geographic Department					Prior clearance from government agency is required
3.	Geological conditions	Y	Database, Statistics & Cartography Division			1990		
	Geological map, soil map and		Department of Geology and Mines, MOIH					
	geological investigation (Boring, laboratory test, etc.) data							
4.	Discharge Data of Rivers	Y	Department of Meteorology and Hydrology, MOAF				Lao	Raw Data
5.	Disaster record	Y	Permanent Secretary Office, MOAF		Agricultural Statistics of	June,1999	Lao/English	
	Earthquake, Landslide, Flood and etc.				Lao PDR 1998			
X	Transportation Data (whole country and Savannakhet/Khammouan)							
1.	Administration of Transport Sector (roads, water, air and railway)							
	- Authorities and agencies concerned							
	- Organization charts and number of officials							
	- Responsibilities							
	- Development policies							

	ITEMS	AVAILABILITY	PLACE OF DATA	SOURCE	TITLE	PUBLISHED DATE	LANGUAGE	NOTE
2.	Networks of roads, ports and water transport and air	Y	MCTPC	MCTPC	Lao Mational Road Network	Feb.1997	English	
3.	Traffic volumes, both passengers and cargoes : roads, ports/water transport and air	N						
4.	Traffic forecasts, both passengers and cargoes : roads, ports/water transport and air	Y	National Statical Center, SPC	MCTPC	Basic Statistics 98	May 18,1999	English/Lao	
5.	Traffic flows (origin-destination), both passengers and cargoes: roads, ports/water transport, air including international movement.	Y	National Statical Center, SPC	MCTPC	Basic Statistics 98	May 18,1999	English/Lao	
6.	Facilities, capacities and operating conditions: roads, ports/water transport, airports and air transport.	N						
7.	Number of car registration	Y	National Statical Center, SPC	MCTPC	Basic Statistics 98	May 18,1999	English/Lao	
9.	Relevant studies, e.g. national transport studies and other relevant studies (e.g. transport forecasts) for each mode at the national level and the study areas.	Y	UNDP, WB Library	UNDP,A DB,IBRD	Various Reports		English	
10.	Laws regulating international trade and movement (customs, immigration, business permit, etc.)	Y			Foreign Investment Law, Customs Law			
XI	Present Status and Future Development Plan on Infrastructures (whole country and Savannakhet/Khammouan)							
1.	Budget allocation for each infrastructure	Y						
2.	Water supply							
3.	Sewerage and waster disposal (capacity, means of control, standards, effectiveness).	N						
4.	Irrigation	N						
5.	Infrastructure / Sectoral development plans and projects	N						
	- Transport infrastructure development							
	- Plans and projects for other infrastructures							
	- Sewerage and waste disposal projects : study area only							
6.	Telecommunication networks (availability, reliability, quality and capacity)	N						

	ITEMS	AVAILABILITY	PLACE OF DATA	SOURCE	TITLE	PUBLISHED DATE	LANGUAGE	NOTE
7.	Energy supply	N						
XII Environmental Condition								
1.	Laws and regulations for environmental regulation	Y	Science, Technology and Environmental Agency		Environmental Protection Law	April, 1999	Lao	
2.	Environmental protection area by law and regulation if any.	Y	Ministry of Agriculture and Forestry		Forest Law, Prime Minister's Decree		Lao/English	
3.	Precious animals, plants historic spots, landscape, etc. if any.	Y	Ministry of Agriculture and Forestry		Threatened Wild Animals			
4.	Environmental endangered area and hot spot if any.							
5.	International environmental treaty	Y						
6.	Present status of slash-and-burn-farming and its future plan.	Y	Permanent Secretary Office, MAF		Agricultural Statistics of June, 1999		Lao/English	
7.	Data on surface water, groundwater, air, soil, bottom materials, land subsidence, noise and vibration.	N			Lao 1998			
8.	Standards for water quality, air quality, bottom materials, noise and vibration.	N						
XIII Consultants and Surveyors								
1.	List of consulting firms for environmental survey, geological survey and topographic survey.	Y						See attached sheet
2.	List of consulting firms in transportation, traffic volume, industrial trend and social survey.	Y						
3.	Cost of investigation and survey	Y						
	- Boring, laboratory test, in-situ test, topographic survey and etc.							
	- Environmental survey (water quality, soil quality, air quality, plant, animals and etc.)							
	- Traffic survey (Roadside OD survey, traffic volume survey)							
	- UXO exploration and UXO removal							
	- Water quality testing							
	- Water resources survey.							