

2. 実施細則 (S/W)

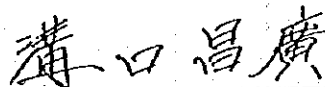
SCOPE OF WORK
FOR
THE FEASIBILITY STUDY
ON
THE INTEGRATED AGRICULTURE DEVELOPMENT
IN
THE AGRICULTURAL LAND REFORM AREAS
IN
THE UPPER NORTHEASTERN REGION
THE KINGDOM OF THAILAND

AGREED UPON BETWEEN
AGRICULTURAL LAND REFORM OFFICE (ALRO)
AND
JAPAN INTERNATIONAL COOPERATION AGENCY(JICA)

BANGKOK, AUGUST 30, 1996



Mr. Sutin MULPHRUK
Deputy Secretary General
Acting for Secretary General
Agricultural Land Reform Office(ALRO)
Ministry of Agriculture and Cooperatives(MOAC)
Kingdom of Thailand



Mr. Masahiro MIZOGUCHI
Leader
Preparatory Study Team
Japan International Cooperation Agency(JICA)
Japan

I. INTRODUCTION

In response to the request of the Government of The Kingdom of Thailand(hereinafter referred to as "Thailand"), the Government of Japan has decided to conduct a Feasibility Study on the Integrated Agriculture Development in the Agricultural Land Reform Areas in the Upper Northeastern Region in Thailand(hereinafter referred 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 Kingdom of 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 authorities concerned of the Government of Thailand.

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 conduct an inventory survey for the study area in order to confirm the existing conditions and constraints, to select priority areas (Phase- I), and to conduct a feasibility study for the priority areas in each development category as defined below (Phase- II).
2. To establish the guideline consisting of guideline(1) for classification of the areas into development categories and selection of priority areas, and guideline(2) for formulating the development plan of each category.
3. To carry out, in the course of the Study, technology transfer to the Thai counterpart personnel concerned.

III. STUDY AREA

The study area covers about 218 thousand ha (1.4 million rai) of the land reform areas which are extending in the declared and potential Land Reform Areas (LRAs) in four provinces of Khon Kaen, Maha Sarakham, Mukdahan and Sakon Nakhon in the Upper Northeastern Region. (See the location map and the list of LRAs in the study area attached as ANNEX I and II , respectively.)

IV. SCOPE OF THE STUDY

In order to achieve the above mentioned objectives, the Study consists of two(2) phases and covers the following items;

I. Phase I

Inventory Survey, which includes collection of relevant data and information for the implementation of the study area, shall be carried out based on the following procedures.

- 1.1 To review existing development plans and projects related to the Study.
- 1.2 To conduct inventory survey for the study area by collecting and analyzing of the following data and information, through the field survey and preliminary interviewing the farmers in order to confirm the existing conditions and constraints of areas.

(1) Nature

- a) topography
- b) meteorology
- c) hydrology
- d) geology
- e) soil
- f) water resources
- g) water quality
- h) others

(2) Agriculture

- a) existing land use
- b) cropping pattern and yield
- c) soil loss, salt damage, etc
- d) livestock, inland fisheries, etc
- e) role of women
- f) others

(3) Socio-economic condition

- a) population, household, etc
- b) educational level, job opportunity, etc
- c) administrative organizations related to the study area
- d) regional and other donors' development plan
- e) others

(4) Condition of LRAs

- a) land use before distribution
- b) land tenure
- c) acreage and location
- d) distributive condition of 218 thousand ha lands
- e) others

(5) Agro-economy

- a) marketing of crops, livestock, etc
- b) farmer's economy
- c) needs and mechanism of agricultural credit system
- d) others

(6) Infrastructure

- a) existing and proposed irrigation and drainage facilities
- b) post-harvest and marketing facilities
- c) rural infrastructure (farm road networks, water supply, electrification, etc)
- d) others

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- (7) Agricultural supporting service
 - a) government institutions
 - b) farmer's organizations
 - c) extension service
 - d) support for seed, fertilizer and chemicals
 - e) mechanization
 - f) others
- (8) Operation and management
 - a) water management organizations
 - b) customs of water use, water right, water charge, etc
- (9) Natural environmental aspects (including forest conservation)
- (10) Constraints for agricultural development

- 1.3 To evaluate capability and capacity of the Agricultural Land Reform Office (hereinafter referred to as "ALRO") including institutional aspects and organizations related to the project implementation.
- 1.4 To propose various development categories in accordance with the identified conditions and constraints (including results of Initial Environmental Evaluation).
- 1.5 To select priority areas out of each development category.
- 1.6 To establish the guideline(1) for classifications of the areas into development categories and selection of priority areas.

2. Phase- II

On the basis of the results of Phase- I study, the study shall be carried out with the following procedures.

- 2.1 To compile maps (scaled 1/4,000) for the selected priority areas for engineering design.
- 2.2 To conduct feasibility study for the selected priority areas, considering following items;
 - (1) Land use and classification
 - (2) Land tenure and distribution
 - (3) Water resources development
 - (4) Cropping pattern and farming system
 - (5) Socio-economy and agro-economy
 - (6) Agricultural infrastructure (irrigation and drainage system, post-harvest, etc)
 - (7) Rural infrastructure (farm road networks, water supply, electrification, etc)
 - (8) Agricultural supporting system
 - (9) Post-harvest and marketing system
 - (10) Operation and management

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- (11) Environmental aspects (including results of Environmental Impact Assessment, if necessary)
- (12) Preliminary design of the major structure
- (13) Implementation plan
- (14) Costs and benefits
- (15) Overall evaluations
- (16) Recommendations

2.2 To establish guideline (2) for formulating development plan of each category.

V. STUDY SCHEDULE

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

VI. REPORTS

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

1. Inception Report

Thirty (30) copies at the commencement of the Phase I field work.

2. Progress Report (I)

Thirty (30) copies on the way of the Phase I field work.

3. Progress Report (II)

Thirty (30) copies at the end of the Phase I field work.

4. Interim Report

Thirty (30) copies at the commencement of the Phase II field work.

5. Progress Report (III)

Thirty (30) copies at the end of the Phase II field work.

6. Draft Final Report

Forty (40) copies after the Phase II home office work. The Government of Thailand shall provide its comments in the Draft Final Report to JICA within one (1) month after receiving the Draft Final Report.

7. Final Report


Fifty (50) copies within two (2) months after the receipt of comments on the Draft Final Report.



VI. UNDERTAKING OF GOVERNMENT OF THAILAND

1. In accordance with the Agreement of Technical Cooperation between the Government of Japan and the Government of the Kingdom of Thailand dated November 5, 1981, the Government of the Kingdom of Thailand shall accord benefits to the Japanese study team (hereinafter referred to as "Team") as follows:
 - (1) 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,
 - (2) to exempt the members of the Team from taxes, duties and any other charges on equipment, machinery and other materials brought into Thailand for the conduct of the Study,
 - (3) to exempt the members of the Team from income taxes and charges of any kind imposed on or in connection with any emoluments or allowance paid to the members of the Team for their services in connection with the implementation of the Study, and
 - (4) to bear claims, if any arises against the members of the Team resulting from, occurring in the course of, or otherwise connected with the discharge or 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.
2. To facilitate the smooth conduct of the Study, ALRO shall take at its own expense the following measures in cooperation with other relevant organization;
 - (1) to secure permission for entry into private properties or restricted areas for the conduct of the Study,
 - (2) to secure permission for the Team to take all data and documents related to the Study out of Thailand to Japan,
 - (3) to provide the medical services as needed (Its expenses will be chargeable on the members of the Team.), and
 - (4) to ensure the safety of the members of the Team when and as its required in the course of the Study.
3. ALRO shall act as a counterpart executing agency to the Team and also a coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.
4. ALRO shall, at its own expense, provide the Team with the following, in cooperation with other organizations concerned:
 - (1) available maps, data and information related to the Study,
 - (2) additional survey related to the Study if necessary,
 - (3) a counterpart group, including a project coordinator responsible for the study and resolving any trouble arising throughout the study period,
 - (4) suitable office space with appurtenant furniture, cleaning, and air conditioned room in Bangkok and project site(s),
 - (5) credentials or identification cards to the members of the Team,
 - (6) appropriate number of drivers for field trip.

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VI. UNDERTAKING OF JICA

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

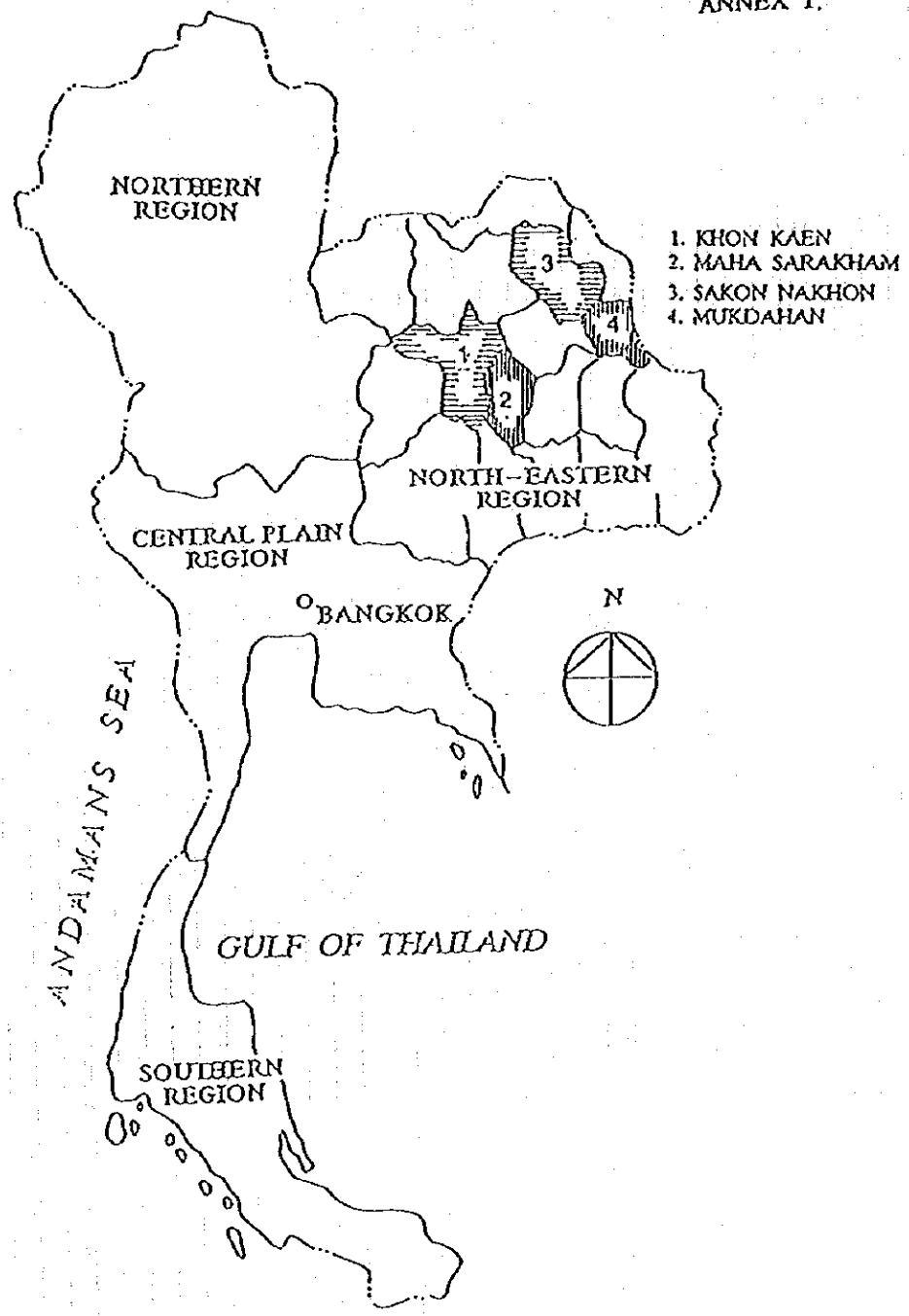
- (1) to dispatch at its own expense, the study team to the Kingdom of Thailand,
- (2) to pursue technology transfer to the Thai counterpart personnel in the course of the Study.

IX. CONSULTATION

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

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ANNEX I.



LOCATION MAP OF FOUR PROVINCES
FOR THE FEASIBILITY STUDY

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LIST OF LAND REFORM AREAS (LRAs) IN THE STUDY AREA

Province	Number of Areas	Gross Area	
		(thousand) rai	(thousand) ha
Khon Kaen	6	274	44
Maha Sarakham	10	214	34
Mukdahan	12	458	73
Sakhon Nakhon	7	416	67
Grand Total 35 Areas		1,362	218

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TENTATIVE SCHEDULE

Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
Item																							
Work in Thailand		■	■	■	■		■	■					■	■	■	■	■		■				
Work in Japan	□							□	□	□								□					
Mapping										■	■	■	■										
Phase	← Phase I →									← Phase II →													
Reports	△ Ic/R				△ P/R(I)			△ P/R(II)					△ Ic/R				△ P/R(III)		△ DF/R				△ F/R

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3. 協議議事録 (M/M)

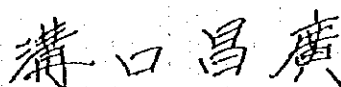
MINUTES OF MEETING
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Mr. Masahiro MIZOGUCHI
Leader
Preparatory Study Team
Japan International Cooperation Agency (JICA)
Japan

The preparatory study team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA"), and headed by Mr. Masahiro Mizoguchi, visited the Kingdom of Thailand from 20 to 31 August, 1996 for the purpose of discussing and conforming the Scope of Work for the Study on the Integrated Agriculture Development in the Agricultural Land Reform Areas in the upper northeastern region in the Kingdom of Thailand (hereinafter referred to as "the Study")

The Team had a series of discussions with the officials concerned at the Agricultural Land Reform Office (hereinafter referred to as "ALRO") and other organizations on the Scope of Work for the Study. The list of participants in the meetings is attached in the ANNEX I.

As a result of the discussions, both sides have agreed on the Scope of Work and salient results of the discussions are as follows:

1. The study will cover 35 Land Reform Areas (about 218 thousand ha) in the four provinces in the upper northeastern region.
2. The Planning and Coordination Committee (PCC) among the agencies related to the Study should be arranged by MOAC in the course of the Study, for smooth implementation of the projects in future.
3. The 1/4,000 scaled map for the selected priority areas for engineering design should be compiled in phase II study.
4. Regarding to the technical transfer, ALRO requested the counterpart(s) training in Japan and the Team promised to convey the request to JICA headquarters in Tokyo, Japan.
5. ALRO requested the seminar at the time of submission of the DF/R and the Team give a promise to convey the request to JICA headquarters in Tokyo, Japan.
6. ALRO requested that the vehicle(s) and personal computer(s) be prepared by JICA and the Team give a promise to convey this request to JICA headquarters in Tokyo, Japan.
7. ALRO should provide the suitable office space equipped with telephones, electricity, water supply and necessary number of desks and chairs be provided in Bangkok and study site(s).
8. ALRO promised that the counterpart personnel including project coordinator will be assigned in Bangkok and project site(s).

S. Mizoguchi

LIST OF PARTICIPANTS

1. THAI SIDE

ALRO(Agricultural Land Reform Office)

Mr. Sulin Mulphruk	Deputy Secretary-General
Mr. Worwate Tamrongtanyalak	Director, Research and Planning Division
Mr. Wijin Cholitkul	Director of Engineering Division
Mr. Chaiyuth Foophow	Chief of Engineering Planning Section
Mr. Jakri Ramana	Agronomist, Land Reform Operation Division
Ms. Panita Satutum	Chief of Project Preparation Sub-section
Ms. Siri-on Jinunarak	Acting Chief of Foreign Cooperation Section
Ms. Phenlawan Suwandit	Land Reform Officer
Mr. Jakkrit Jarupan	Land Reform Officer
Mr. Chadehawan Chonnork	Land Reform Officer
Mr. Chanchai Atiwannapat	Agriculture Engineer, Engineering Division
Mr. Kaoru Nagai	JICA Expert

PLRO(Provincial Land Reform Office)

Mr. Korkit Suttanarak	Director of Khon Kaen PRLO
Mr. Taveevat Promphubase	Director of Maha Sarakham PRLO
Mr. Likite Kampantong	Director of Mukdahan PRLO
Mr. Banlu Poksombat	Administration Sector of Sakhon Nakhon PRLO

2. JAPANESE SIDE

The Preparatory Team

Mr. Masahiro Mizoguchi	Team Leader
Mr. Satoshi Mizuochoi	Agricultural Infrastructure
Mr. Yasumasa Maeda	Agronomy
Mr. Makoto Takahashi	Coordinator
Mr. Kenji Tanaka	Agricultural Land Reform
Mr. Yuji Hatakeyama	Environment

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4. 収集資料リスト

番号	カテゴリ	資料の名称	発行年	地域	言語	形態	形成	ページ数	ホリズタル ポートの別	部数	収集先名称又は 発行機関	寄贈・購入 の別	備 考
1	計画図	①Khon Kaen Province ②Naha-Sarakham Province ③Sakon Nakhon Province ④Muekahan Province	1996	対象 地域	タイ語	図面	変形 A 3	8	ホリズタル	1	A L R O	寄贈	農地改革区域、農業道地、保護 林、経済林、ALRO以外のアグ リ地区が記載 縮尺：1/25万（4面） 総尺：1/50万～1/100万（4面）
2	地形図 (1/25万)	①Changwat Nakhon Phanom ②Changwat Roi Et ③Changwat Khon Kaen ④Vientiane ⑤Changwat Chaiyaphum ⑥Changwat Ubon Ratchathani	1991 1983 1983 1980 1984 1983	対象 地域	タイ語 英語	図面	変形	6	ホリズタル	2	Royal Thai Survey Department	購入	
3	イデ 777	Index to Maps on Scale 1:250,000	-	全国	英語	図面	A 4	1	ホリズタル	1	Royal Thai Survey Department	寄贈	Series 1501
4	イデ 777	Sheet Lines and Sheet Numbers 1:50,000 Scale	-	全国	英語	図面	変形	1	ホリズタル	1	Royal Thai Survey Department	寄贈	Series L7017 15' NS X 15' EW
5	一般統計	Pocket Thailand in Figures 2nd Edition 1996	1996	全国	英語	書籍	変形	360	ホリズタル	1	Alpha Research Co., Ltd.	購入	
6	一般統計	Pocket Thailand in Figures 1st Edition 1994	1994	全国	英語	書籍	変形	324	ホリズタル	1	Alpha Research Co., Ltd.	寄贈	長井専門家より寄贈
7	性別統計	Statistical Booklet on Thai Women and Men	1995	全国	英語	書籍	A 5	80	ホリズタル	1	国家統計局	寄贈	
8	出版案内	National Statistical Office Publications	1996	全国	英語	書面	A 4	4	ホリズタル	2	国家統計局	寄贈	

番号	カテゴリ	資料の名称	発行年	地域	言語	形態	版型	ページ数	資料の別	部数	収集先名称又は発行機関	寄贈・購入の別	備考
9	国家計画	Summary of the Eighth National Economic and Social Development Plan (1997-2001)	不明	全国	英語	書面	A 4	8	レポート	1	ALRO (長井専門家)	寄贈	
10	国家計画	Development Guidelines of the Eighth National Economic and Social Development Plan	不明	全国	英語	書面	A 4	15	レポート	1	ALRO (長井専門家)	寄贈	
11	農業政策	New Theory about Water for Agriculture	1996	全国	英語	書面	A 4	2	レポート	6	ALRO (長井専門家)	寄贈	国王による農業用水確保論
12	農業投資	Agricultural Investment Plan of the Government in the Eighth National Economic and Social Development Plan (1997-2001)	不明	全国	英語	書面	A 4	2	レポート	1	ALRO (長井専門家)	寄贈	
13	農業統計	Agricultural Statistics of Thailand Crop Year 1994/95	1995	全国	外語 英語	書籍	A 4	272	資料	2	農業協同組合省 (角田専門家)	寄贈	
14	農業統計	Advanced Report 1993 Agricultural Census	1994	全国	外語 英語	書籍	A 4	108	資料	1	国家統計局	購入	
15	労働統計	Report of the Labor Force Survey	1994	全国	外語 英語	書籍	A 4	371	資料	1	国家統計局	購入	

番号	カテゴリ	資料の名称	発行年	地域	言語	形態	版型	ページ数	資料の別	部数	収集先名称又は発行機関	寄贈・購入の別	備考
16	社会統計	Report The Social Attitude of Population Survey 1993	1994	全国	外語 英語	書籍	A4	88	資料の別	1	国家統計局	購入	
17	社会経済 統計	Preliminary Report of the 1994 Household Socio- Economic Survey	1995	全国	外語 英語	書籍	A4	49	資料の別	1	国家統計局	購入	
18	自然	Geological Map of Thailand 1:1,000,000 1982 Edition	1984	全国	英語	図面	変形	2	資料の別	1	Geological Survey Division, Department of Mineral Resources	-	ALRO(炭井専門家)に保管
19	農地改革	Selected Data on Land Reform Areas	1995	全国	外語 英語	図面	変形	2	資料の別	1	ALRO	寄贈	
20	農地改革	Summary of the Accelerated Agricultural Land Reform Master Plan for 1992-1999	不明	全国	英語	書面	A4	24	資料の別	1	ALRO (炭井専門家)	寄贈	
21	環境	National Parks of Thailand Gray, Piprell & Graham	1994	全国	英語	書籍	B5	250	資料の別	1	Industrial Finance Corpora- tion of Thailand	購入	
22	環境	Enhancement and Conserva- tion of National Environ- mental Quality Act B. E. 2535	1994	全国	英語	書籍	A4	32	資料の別	1	科学技術環境省	寄贈	

番号	カテゴリ	資料の名称	発行年	地域	言語	形態	版型	ページ数	資料の別	部数	収蔵先名称又は発行機関	寄贈・購入の別	備考
23	農地改革	Master Plan Study for the Agricultural Land Reform Office Volume 1 Executive Summary Volume 2 Main Report Volume 3 Agricultural Land Reform Plan Volume 4 Agricultural Land Reform Plan by Province Volume 5 Financial Management Volume 6 Organizational and Legal Management Volume 7 Production Potential Volume 8 Marketing Prospects Volume 9 Standard criteria for road/water infrastructure Volume 10 Pilot Study Buri Ram Chaiphaphum Uttaradit Chanthaburi Chachoengsao Krabi Songkhla Lop Buri	1990	全国	英語	報告書	A4	37 197 70 349 55 28 34 73 53 41 55 36 36 44 49 50 55	資料	1	ALRO	-	ALROに保管 全17冊 (1992-96, 97-2001, 2002-2006)

番号	カテゴリ	資料の名称	発行年	地域	言語	形態	版型	ページ数	オリヅナル コピーの別	部数	収集先名称又は 発行機関	寄贈・購入 の別	備考
24	環境	Notification of the Ministry of Science, Technology and Environment	1992	全国	英語	書面	A4	15	コピー	1	科学技術環境省	寄贈	Specifying procedures, rules, methods and guidelines for the preparation of environmental impact assessment report
25	環境	環境調査レポート カクワカクワ	1996	全国	英語	書面	A4	5	コピー	1	科学技術環境省	寄贈	フェイス取得会社一覧 計48社
26	社会経済 統計	Report of the 1992 Household Socio-Economic Survey Northeastern Region	1993	東北 タイ	タイ語 英語	書籍	A4	189	オリヅナル	1	国家統計局	購入	
27	造林計画	東北造林普及計画(REX) レポート等資料	1996	東北 タイ	日本語 英語	冊子 書面	A4	25	オリヅナル コピー	6	REXレポート 7777777777777777	寄贈	JICAレポート
28	造林計画	東北造林普及計画 Q&A(案) REXへのより よい理解を願って	1996	東北 タイ	日本語	冊子	A4	74	コピー	1	REXレポート 桂川裕樹専門家他	寄贈	非公式資料
29	農業	Food and Population in a Northeast Thai Village By Hayao Fukui	1993	東北 タイ	英語	書籍	B5	421	オリヅナル	1	University of Hawaii Press	購入	
30	自然	Distribution of Salt Affected Soils in Korat Plateau 1:500,000	1994	東北 タイ	英語	図面	変形	4	オリヅナル	1	Department of Land Development	寄贈	
31	自然	Land Suitability Map for Small Reservoir Development in Northeast Region of Thailand 1:500,000	1994	東北 タイ	英語	図面	変形	4	オリヅナル	1	Department of Land Development	寄贈	

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32	自然	The Distribution of Salt-affected Soils in the Northeast of Thailand Lower Mekong Basin 1:250,000	1994	東北 タイ	英語	図面集	図形	18	資料	複製	Department of Land Development Mekong Secretariat	-	ALRO(長井専門家)に保管
33	水資源	Chi Basin Water Use Study Final Report	1988	東北 タイ	英語	報告書	A4	約100	資料	複製	RID	-	RID所有
34	地区情報	コクンにおける地盤、農家情報等の一例	1996	コクン	英語	書面	A4 B4	15	資料	寄贈	Nhon Kaen P L R O	寄贈	コンピューター入力リストの一部出力結果を含む
35	地区情報	マハサラカム	1996	マハサラカム	英語	冊子	A4	28	資料	寄贈	Maha Sarakham P L R O	寄贈	
36	地区情報	ムクダハンに関する情報	1996	ムクダハン	英語	冊子	A4	59	資料	寄贈	Mukdahan P L R O	寄贈	
37	計画図紙	Study Area of F/S on LRA in the Upper Northeast	1996	調査 地域	英語 英語	書面	A4	2	資料	寄贈	Mukdahan P L R O	寄贈	
38	地区情報	サコンナクン地改革区域農業総合調査計画F/Sに関する情報	1996	サコンナクン	英語	冊子	A4	34	資料	寄贈	Sakhon Nakhon P L R O	寄贈	
39	地区情報	サコンナクンPLRO2538年次報告書	1996	サコンナクン	英語	冊子	A4	67	資料	寄贈	Sakhon Nakhon P L R O	寄贈	
40	国勢調査	1990 Population and Housing Census Changwat Khon Kaen	1991	コクン	英語 英語	書籍	A4	333	資料	購入	国勢統計局	購入	

番号	カテゴリ	資料の名称	発行年	地域	言語	形態	版数	ページ数	資料の別	部数	収集先名称又は発行機関	寄贈・購入の別	備考
4 1	国勢調査	1990 Population and Housing Census Changwat Maha Sarakham	1991	マハサラクハム	英語	書籍	A 4	315	資料	1	国家統計局	購入	
4 2	国勢調査	1990 Population and Housing Census Changwat Mukdahan	1991	ムクダハン	英語	書籍	A 4	307	資料	1	国家統計局	購入	
4 3	国勢調査	1990 Population and Housing Census Changwat Sakon Nakhon	1991	サクンナコン	英語	書籍	A 4	325	資料	1	国家統計局	購入	
4 4	自然	Detailed Reconnaissance Soil Map of Udon Thani Province 1:100,000	1972	ウドンタニ県	英語	図面集	変形	17	資料	1	農業協同組合省	-	ALRO(長井専門家)に保管 参考として
4 5	自然	Detailed Reconnaissance Soil Map of Kanchanaburi Province 1:100,000	1986	カンチャナブリー県	英語	図面集	変形	8	資料	1	農業協同組合省	-	ALRO(長井専門家)に保管 参考として

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