

付 属 資 料

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資料 1 要請書

Application
for
the Development Study by the Government of Japan

1. Study digest

(1) Project Title: National Component of the Regional Mekong GIS data base for Cambodia.

(2) Location: Eastern and sections of Western Cambodia map is attached as attachment I

(3) Implementing Agency

- Name of Agency: Ministry of Public Works and Transport. (MPWT)

- Number of the staff at that Agency: 10,850.00

- Budget allocation to the agency: 45,193.00 million Riels

- Organization Chart: Attached as Attachment II

(4) Justification for the Project

The information generated by this project would allow the creation of a national master plans for Cambodia, and designate development priorities and requirements of assistance according those identified using the monitoring and planning capability of the newly installed Geographic Information System.

The expansion of the present project to include the rest of the country would at the same time contribute inputs to the Mekong GIS, which is located at the Mekong River Commission in Phnom Penh. Thus achieving both objectives at the same time in a single project.

(5) Estimate starting date, duration and schedule

To start in the dry season in November for new aerial photo is recommended and before the new Cambodian Fiscal year. The project duration should be two years.

- (6) Expected funding source after the study results (including external assistance)

The Government of Cambodia would provide facilities, and Cambodian staff and administrative assistance to support the project.

- (7) Other related Project, if any

Presently, the Reconnaissance Survey Project for the establishment of an Emergency Rehabilitation and Reconstruction of the Kingdom of Cambodia has completed the mapping of the western and southern half of Cambodia.

2. Terms of Reference (TOR)

- (1) Necessity and Justification of the Study

It is necessary for Cambodia to have new digital spatial data for this area, such as topographic, infrastructure, land use and other resources maps. The reason is that the latest maps available have been produced in 1968. Since then there have been many changes that have taken place, such as roads, canals, settlements and land use. The region forms an integral part of Cambodia and national planning requires that priorities of development are set against the whole country. Otherwise some of the needed areas will be deprived of assistance aid.

- (2) Necessity and Justification of Japanese Technical Cooperation

The present western and southern part of the country was sponsored by the Japanese Government under an emergency program for the rehabilitation of Cambodia. However, as the stability has been re-established it would be more appropriate that the second part would be covered under the Mekong GIS regional program. It is also important because the project would cover not only the rest of Cambodia, but would complete the total coverage of the lower Mekong Basin.

(3) Objective of the Study

After twenty years of war many changes have taken place. Very little information is now available for these areas to select development priorities. Using the actual physical and socio-economic digital data and GIS decisions can be made with greater confidence based then presently possible. Now often decisions are being made upon quick appraisals and surveys, thus briefing of officials. These are often very bias.

(4) Area to be covered by the Study

The area to be covered is mainly the eastern section and the southwestern corner of the country. Including those border areas not covered in the present RSP project. These comprise of a total of 100,000 square kilometers.

(5) Scope of the Study (out line of the Study)

The scope of the study consists of the production of topographic maps at a scale of 1:100,000 to replace the outdated 1968 maps; furthermore the land use maps and landform maps which together for the bases of GIS application to select the development targets.

(6) Study Schedule

The study schedule should run from November 1999 to coincide with the fiscal year of the Government of Cambodia through November 2001.

(7) Expected Major Output of the Study

The major output of the project consists of the topographic maps, landform and land use maps at a scale of 1:100,000 scale and the digital data of these maps, which are a by-product of generating these map. However, this digital data are important as inputs of the GIS application.

(8) Request of the Study to other donor agencies, if any.

No other request were made from other donor countries.

(9) Other relevant Information

It is urgent that this request be considered high priority as decisions today are made without proper background material, which this project will produce for the remaining areas of Cambodia.

3. Facilities and information for the Study Team.

(1) The following counterpart staff are available:

(one) National Project Coordinator,
(two) National GIS expert staff,
(four) GIS technicians,
(eight) Photo interpreters.
The total is 15 persons.

Counterparts, who taking part in the Study were graduated from universities.

(2) Available data, information, documents, maps etc. to the study

Data available consist of aerial photographs flown in 1993/94. Documents, old maps and other ancillary documents.

There is 50 square meters of Office space, 250 square meters of laboratory space for locating the GIS and install the various interpretation teams.

(3) Information on the security in the Study area

Since the latest election security over most of the territory has been reestablished and the field team can travel without any problems.

4. Global issues (Environment, Women in Development, Poverty etc.)

(1) Environmental components (such as pollution control, water supply, sewage, environmental management, forestry, bio-diversity) of the project if any

Logging is severe in the eastern area of Cambodia. However, there is no good information on the extent of the illegal logging. The logs are directly exported to Vietnam as there are no good roads connection this area with the central area.

Logging in the southwest area is also very severe and even new roads have been built without the Government being aware. Only new photography or satellite imagery could provide that information. Thus at the moment the Government is not able to monitor these areas.

- (2) Anticipated environmental impacts (both natural and social, by the project if any)

As the project utilize remote sensing techniques there is not direct contact with the environment, except for the few field trips.

- (3) Woman as main beneficiaries or not

The planning process using this remote sensed data is objective and avoids the prejudices of representation of the male dominated officials requesting assistance.

- (4) Project components which require special consideration for woman (such as gender differences, woman's specific roles, woman's participation), if any

The maps and the application of GIS are a development tool, and women will benefit, because in the new settlements and better location of these villages will assist the women by reducing travel distances and providing better living conditions, so that they have more time to take care of the homes.

- (5) Anticipated impacts on women caused by the project, if any

The identification of new land for resettlements will provide the people better livelihood.

- (6) Any constraints against low income people caused by the project

There are no negative impact of the project.

5. Undertaking of the Government of the Kingdom of Cambodia

In order to facilitate a smooth and efficient conduct of the Study, the Government of the Kingdom of Cambodia shall take necessary measure:

- (1) To secure the safety of the Study team.
- (2) To permit the member of the Study team to enter, leave and sojourn in the Kingdom of Cambodia in connection with their assignments and exempt them from alien registration requirement and consular fees.
- (3) To exempt the Study team from taxes, duties and any other charges on equipment, machinery and other materials brought into and out of the Kingdom of Cambodia for the conduct of the Study.
- (4) To exempt the Study team from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to the member of the Study team for their services in connection with the implementation of the Study.
- (5) To provide necessary facilities to the Study team for remittance as well as utilization of the fund introduced in the Kingdom of Cambodia from Japan in connection with the implementation of the Study.

- (6) To secure permission for entry into private properties or restrict areas for the conduct of the Study.
- (7) To secure permission for the Study to take all data, documents and necessary materials related to the Study out of the Kingdom of Cambodia to Japan.
- (8) To provide medical services as needed. Its expenses will be chargeable to member of the Study team.
6. The Government the Kingdom of Cambodia shall bear claims, if any arises against member(s) of the Japanese Study team resulting from, occurring in the course of or otherwise connected with the discharge of their duties in the implementation of the Study, exempt when such claims arise from gross negligence or willful misconduct on the part of the member of the Study team.
7. The Ministry of Public Works and transport shall act as counterpart agency to the study team and also as coordinating body in the relation with other governmental and non-governmental organization concerned for the smooth implementation of the Study team.

The Government of the Kingdom of Cambodia assured that the matters referred in this form will be insured for a smooth conduct of the Development Study by the Study team.

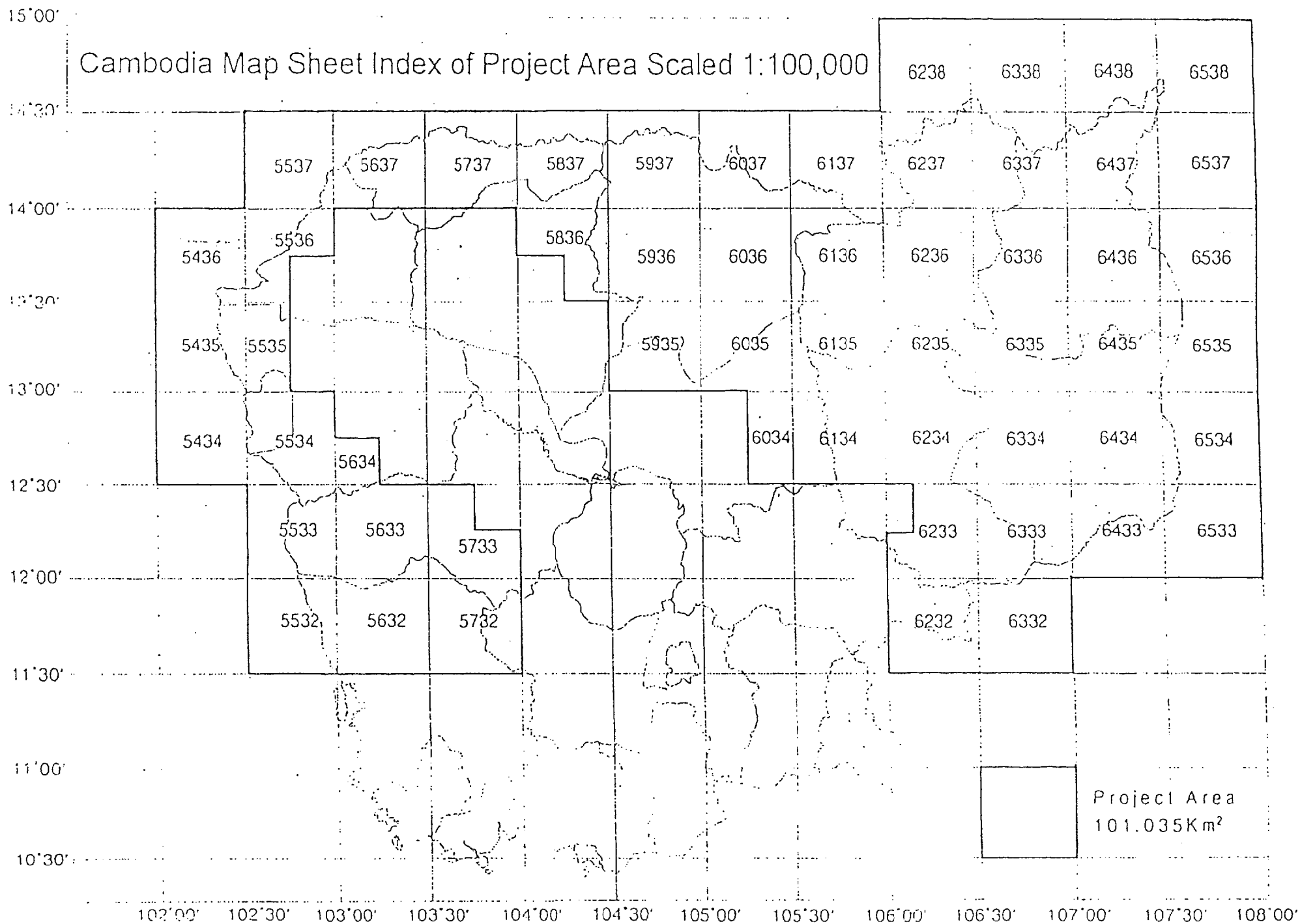
Signature _____

KHY Tainglim

Title: Minister of the Ministry of the Public Works and Transport (MPWT)
Chairman of the Cambodia National Mekong Committee (CNMC)

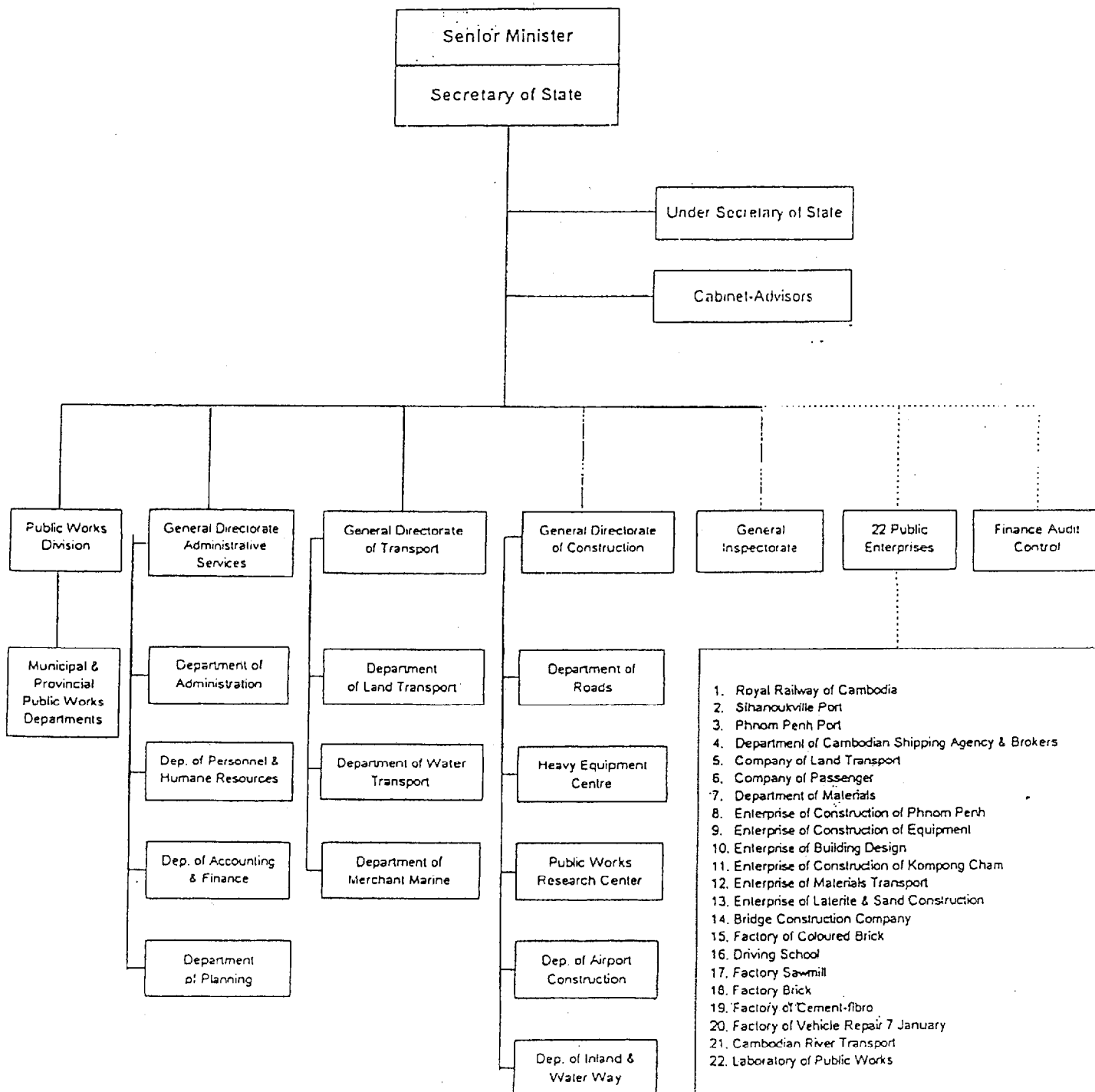
On behalf of Government of the Kingdom of Cambodia

Date: 06 MAY 1991



ORGANISATION CHART

MINISTRY OF PUBLIC WORKS AND TRANSPORT

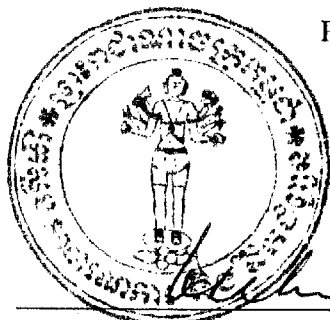


SCOPE OF WORK
FOR
A STUDY
ON
THE ESTABLISHMENT OF GIS BASE DATA
FOR
THE KINGDOM OF CAMBODIA

AGREED UPON BETWEEN

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

PHNOM PENH, 13 DECEMBER 2000



H.E. KHY Tainglim
Minister,
Ministry of Public Works and Transport
Chairman,
Cambodia National Mekong Committee

Mr. NAGAI Nobuo
Leader,
Preparatory Study Team,
Japan International Cooperation Agency

I. INTRODUCTION

In response to a request from the Government of the Kingdom of Cambodia (hereinafter referred to as "the Government of Cambodia"), the Government of Japan has decided to conduct the Study on the Establishment of GIS (Geographic Information System) Base Data (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 the Government of Japan, will undertake the Study in close cooperation with the authorities concerned of the Government of Cambodia.

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

II. OBJECTIVES OF THE STUDY

The objectives of the Study are as follows:

1. to prepare base data for a GIS which shall be widely used by government agencies and other related parties, and
2. to pursue technology transfer in the course of the implementation of the Study.

III. STUDY AREA

The information to be prepared under the Study shall cover the area shown in APPENDIX-1 (approximately 101,035 square kilometers).

IV. SCOPE OF THE STUDY

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

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1. Satellite Images

New SPOT and existing Landsat TM images shall be used. Horizontal and vertical control points shall be based on the existing topographic maps at a scale of 1:50,000.

2. Existing Base Data

- (1) Administrative boundaries, village locations and names shall be acquired from the National Geographic Department.
- (2) The Digital Terrain Model (DTM) at 50 meter postings as well as contour and river data at a scale of 1:50,000 shall be acquired from the Mekong River Commission Secretariat.
- (3) Other relevant data shall be reviewed.

3. Aerial photographs

In principle, the existing aerial photographs of the Mekong River Commission Secretariat shall be used. New photographs shall be taken for the areas shown in APPENDIX-2.

4. Generation of satellite ortho-images

Satellite ortho-images at a scale of 1:100,000 shall be created using the SPOT satellite images.

5. Topographic data updating

Topographic data shall be updated through interpretation of the satellite ortho images, the aerial photographs and the existing 1:50,000 scale maps.

6. Thematic data acquisition

Land use, surface geological / geomorphological information shall be interpreted using the satellite images. The above thematic information shall be verified by the Cambodian side.

7. Structurization

Both thematic map data and topographic information shall be structurized.

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8. Map printing

Topographic map and land use map shall be printed at a scale of 1:100,000.

Surface geological / geomorphological map shall be printed at a scale of 1:500,000.

9. Distribution of the final products

Recommendation for effective mechanism for wide use and distribution of the final products shall be prepared.

V. STUDY SCHEDULE

The Study will be carried out in accordance with the attached tentative schedule shown in APPENDIX-3.

VI. REPORTS AND FINAL PRODUCTS

JICA shall prepare and submit the following reports and final products to the Government of Cambodia.

1. Inception Report summarizing the approach and implementation schedule of the Study

Twenty (20) copies in English

Within one (1) month of the commencement of the Study

2. Interim Report

Twenty (20) copies in English

Within eleven (11) months of the commencement of the Study

3. Draft Final Report summarizing the overall study results

Twenty (20) copies in English

Within twenty two (22) months of the commencement of the Study

The Government of Cambodia will provide JICA with its written comments in English within one (1) month of the receipt of the Draft Final Report.

4. Final Report

Fifty (50) copies in English

Within one (1) month of the receipt of the comments on the Draft Final Report

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5. Final Products

(1) Topographic Maps

Hundred (100) copies of digital data files (CD-ROM)

One thousand (1,000) copies of printed topographic maps for each sheet

(2) Thematic Maps

Hundred (100) copies of digital data files (CD-ROM)

Twenty (20) copies of printed land use maps

Twenty (20) copies of printed surface and geological / geomorphological maps

(3) Satellite images and aerial photographs used in the Study

VII. UNDERTAKING OF THE GOVERNMENT OF CAMBODIA

1. To facilitate the smooth conduct of the Study, the Government of Cambodia shall take the following necessary measures:

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

- (8) to secure necessary permission for aerial photography by foreign registered aircraft for the implementation of the Study;
- (9) to obtain necessary permission from the neighboring governments for the execution of aerial photography by the Study team at the area of border line; and
- (10) to provide the medical services as needed. Its expenses will be chargeable on the members of the Study team.

2. The Government of Cambodia shall bear claims, if any arises, against the members of the Study 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 Study team.

3. The Ministry of Public Works and Transport (hereinafter referred to as "the MPWT") shall be counterpart agency to the Study team and also as coordinating body in relation with other governmental and non-governmental organizations concerned for the smooth implementation of the Study.

4. The MPWT shall provide, at its own expense, the 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 Phnom Penh;
- (4) credentials or identification cards;
- (5) administrative and technical support;
- (6) information of administrative boundaries, geographical names, geology, geomorphology, digitized river and contour at a scale of 1:50,000, and the Digital Terrain Model (DTM) at 50 meter postings; and
- (7) annotation sheets in the Kingdom of Cambodia.

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VIII. UNDERTAKING OF JICA

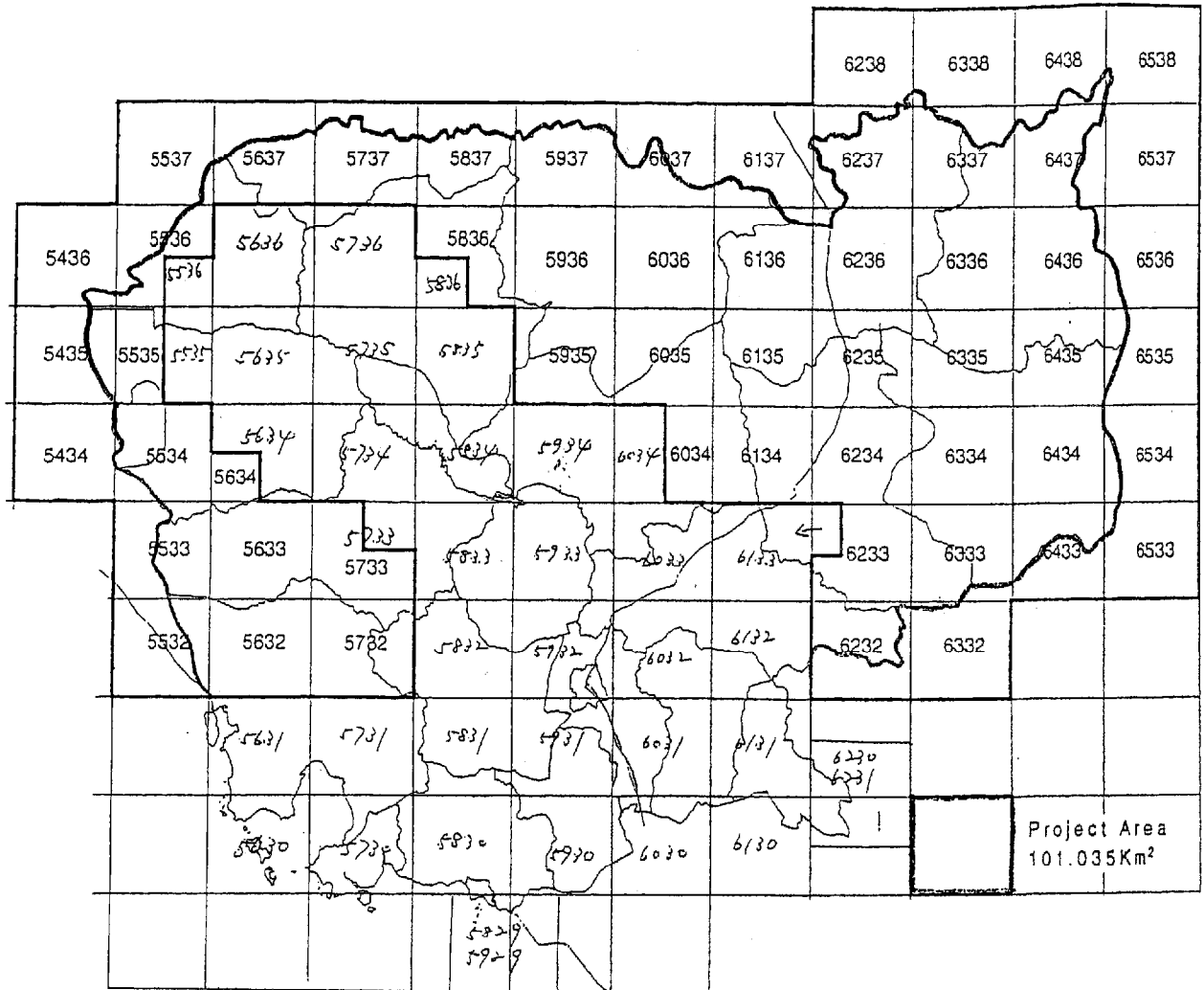
For the implementation of the Study, JICA shall take the following measures:

- (1) to dispatch, at its own expense, the Study team to the Kingdom of Cambodia; and
- (2) to pursue technology transfer to the Cambodian counterpart personnel in the course of the Study.

IX. CONSULTATION

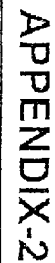
JICA and the Government of Cambodia shall consult with each other in respect of any matter that is not agreed upon in this document and that may arise from or in connection with the Study.

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TENTATIVE STUDY SCHEDULE

Month	1	2	3	4	5	6	7	8	9	10	11	12
Work in Cambodia												
Work in Japan												
Report	<div>▲</div> <div>IC/R</div> <div>▲</div> <div>IT/R</div>											

Month	13	14	15	16	17	18	19	20	21	22	23	24
Work in Cambodia												
Work in Japan												
Report	<div>▲</div> <div>DF/R</div> <div>▲</div> <div>F/R</div>											

IC/R Inception Report
IT/R Interim Report
DF/R Draft Final Report
F/R Final Report

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MINUTES OF MEETING
ON
SCOPE OF WORK
FOR
A STUDY
ON
THE ESTABLISHMENT OF GIS BASE DATA
FOR
THE KINGDOM OF CAMBODIA

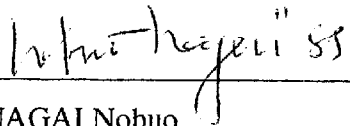
AGREED UPON BETWEEN

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

PHNOM PENH, 13 DECEMBER 2000




H.E. KHY Tainglim
Minister,
Ministry of Public Works and Transport
Chairman,
Cambodia National Mekong Committee


Mr. NAGAI Nobuo
Leader,
Preparatory Study Team,
Japan International Cooperation Agency

The preparatory study team (hereinafter referred to as “the team”) organized by the Japan International Cooperation Agency (JICA) and headed by Mr. NAGAI Nobuo visited the Kingdom of Cambodia from 5 December 2000 to 15 December 2000 to conduct a field survey and discuss the Scope of Work for a Study on the establishment of GIS base data for the Kingdom of Cambodia (hereinafter referred to as “the Study”).

During the stay of the team in Cambodia, a series of meeting were held between the team and the Cambodian authorities on the Study and both sides agreed and signed the Scope of the Study.

The list of attendants is attached.

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

1. Photo Interpretation

Both sides agreed that the Cambodian counterpart personnel shall carry out the photo interpretation with the assistance and under the supervision of the Japanese Study Team in order to pursue effective technology transfer. The scale of the aerial photographs to be taken during the Study shall be 1:40,000. The aerial photographs to be used in the Study shall be converted into digital form by a scanner.

2. Map Symbols

Both sides agreed that the same map Symbols as “the Reconnaissance Survey Project for the Establishment of an Emergency Rehabilitation and Reconstruction of the Kingdom of Cambodia” shall be applied in the Study

3. Information disclosure

Both sides agreed that the GIS base data and reports produced under the Study shall be open to the public and distributed through the Internet.

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(Attachment)

1. Cambodian side

Ministry of Public Works and Transport

H.E. KHY Tainglim,	Minister
H.E. CHHIN Kong Hean,	Director- General of Public Works
Dr. KHUN Sokha,	Deputy Director, Public Works Research Center
Mr. HOUN Rath,	GIS Expert
Mr. MAO Phanarith	Mapping Editor
Mr. KAWAMURA Masaru,	JICA Expert

2. Japanese side

Mr. NAGAI Nobuo,	Leader of the Preparatory Study Team
Mr. YOSHINARI Tomio,	Member of the Preparatory Study Team
Mr. ISHIGURO Jitsuya,	Member of the Preparatory Study Team
Mr. FUKUSHIMA Yoshikazu,	Member of the Preparatory Study Team
Mr. MORI Hisashi,	Member of the Preparatory Study Team

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資料3 主要面会者リスト

(1) Ministry of Public Works & Transport (M P W T : 公共事業交通省)

H.E. KHY Tanglim	Minister
H.E. Chin Kong Hean	Director-General of Public Works, P.Eng.MSc.
Dr. Khun Sokha	Deputy Director , Public Works Research Center
Mr. Houn Rath	GIS Expert, Reconnaissance Survey Project(RSP)
Mr. Mao Phanarith	Mapping Editor & GIS Application, M.SC., Public Works Research Center
川村 勝	J I C A 専門家 (Road and Bridge Planning)
Mr. So Chung Huor	Director, Dept. of Public Works &Transport, Sihanoukville

(2) Ministry of Land Management Urban Planning & Construction(M L M U P C)

- Cadastre and Geography

Mr.Sek SETHA	Director General of Cadastre & Geography
Mr. Ith Sotha	Director of General Department
Mr. Chharom Chin	GIS/ RS Expert, Geography Department
Mr. So Vanna	Deputy Director, Technical Department(Cadastre)

(3) Ministry of Agriculture , Forestry and Fisheries (M A F F : 農林水産省)

- Department of Planning and Statistic 計画局

Ms.Ourng Heng	Chief of Land Use Mapping Office (LUMO)
工藤 浩	J I C A 専門家、Advisor, Dept. of Planning,Statistic and International Cooperation

(4) Ministry of Industry Mines and Energy (M I M E)

Dr. Bun Narith	Director, Hydroelectricity Dept.
西川 力	J I C A 専門家、Electricity Sector Planning
Mr. Sov Chivkun	Director General,General Dept. of Mineral Resources, Dept. of Geology
Mr. Heng Saktheara	Geologist-Expert, Assistant to Ministry

(5) Ministry of Forestry

Mr. TY Sokhun	Director General of Forestry & Wildlife,
(Mr. Tim Ekin	Seed Production Adviser, Aus AID Agriculture Quality Improvement Project)

(6) Ministry of Water resources and Meterology

宮崎 雅夫	J I C A 専門家
Mr. Mao Hak	Deputy Director, Dept. of Hydrology and River Works

(7) Ministry of Environment

西宮 弘	J I C A 専門家、Advisor to the Ministry
Mr. Chuon Chanrithy	Acting Director, Dept. of Natural Resources Assessment & Environmental Data Management

(8) Ministry of Education

Ms. Kuy Phala	Deputy Director, Dept. of Planning, MoE
Mr. Im Huy	Deputy chief, EMIS Center
Mr. Pong Pitin	Chief of EMIS Office
Mr. Mao Pao	Deputy Chief of EMIS Center

(9) C M A C (Cambodian Mine Action Center)

Mr. Khem Sophoan	Director General
Mr. In Channa	Senior Information Officer
Mr. Em Khedy	Secretary of Maintenance & Transport
藤本 誠	J I C A 専門家、Advisor MIS
島田 堅太郎	J I C A 専門家、Expert in Transportation Management

(10) Mekong River Commission

Mr. Tran Canh	Director, Technical Support Division , Secretariat
Dr. Dirk Vanderstighelen	Senior System Analyst, Technical Support Division, Secretariat
Ms. Penroong Bamrungach	GIS Specialist, Technical Support Division, Secretariat

Ms. Manithaphone Mahaxay	Image Interpretation and Mapping specialist, Technical Support Division
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Dr. 増本 隆夫	J I C A 専門家、Senior Advisor,Hydrology
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(11) C D C (Council for the Development of Cambodia)

Ms. Heng Sokun	Director, Birateral Aid Coordination Dept., Japan- Asia Pacific - America
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梅崎 路子	JICA 専門家、Aid Coordination & Management
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(12) 民間コンサル等

1) FINNMAP International

Mr. Veikko Jantunen	Marketing Manager, South East Asia
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Mr. Sami Janne	GIS Expert, Cambodia Cadastral Project
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Mr. hhith Vanna	Office Manager
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Mr. Mika Torhonen	Land Management Expert
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2) Aruna Technology Ltd.

Mr. Jeffrey Himel	Managing Director
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Mr. Christph Feldkotter	GIS ,Remote Sensing Engineer
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3) Geodata System International

Mr. Heng L. Thung	Ph.D. , Senior Remote Sensing Advisor , MPWT
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4) Neeka Limited(コンピューター機器販売会社)

Miss Sok Hieng Mala	Sales Executive
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5) Ariyathoar Print Shop (大手印刷会社)

Mr. Hong Vanthan	Technical Directo
------------------	-------------------

6) APEX Cambodia Travel Service Co.,Ltd. (レンタカー会社)

Ms.Men Sedaravy	Accounting Manager
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(13) J I C A カンボディア事務所

松田 教男	カンボディア事務所長
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原 知佐	同次長
------	-----

小泉 幸弘	同所員
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(14) 日本大使館

小川 郷太郎

野村 寛

特命全権大使

二等書記官

資料4 収集資料リスト

カンボディア地理情報整備調査資料入手リスト(1)

資料	区分			種別
1	資料編	Evolving the long-term vision for the rehabilitation and development of Cambodia	購入	書籍
2	//	National Roads Network in Cambodia	MPWT	//
3	//	Report of Distribution Data to Ministries and Other Agencies	//	原本
4	//	Report of Distribution Data to Agencies and NGO	//	//
5	//	List of Requested Hardware and Software Transferred to Reconnaissance Survey Project, Ministry of Publicworks & Trpt	//	コピー
6	//	Bridge Data Base, National Roads	//	//
7	//	Development Plan for Public Works & Transportation(5 Years Plan)	//	//
8	//	Public Investment Programme - 2000~2002	//	//
9	//	G I S Technical Transfer Final Report	//	//
10	//	Study a Medium Term Strategy for Development of Provincial Road Network -SIDA, 1998	//	//
11	//	Brief History of Land Use Mapping Office- LUMO	LUMO	//
12	//	Mineral Deposits in Cambodia(With Geological Map of Camb.)	MIME	コピー-製本
13	//	Royal Gov. of Cambodia's Policy on the Environment and Data Lis	MOE	コピー
14	//	Equipment and Software List	MLPUC	//
15	//	Organization Chart of the "CNMC"	MPWT	原図
16	//	User Friendly Data Base, MRCS and WSCP by CDE, Univ. of Berne	MPWT	コピー
17	//	Education in Cambodia	MOEd	印刷
18	//	Education Indicators	//	印刷
19	//	Cambodian Mine Action Center(CMAC)	CMAC	コピー
20	//	CMAC National Mine/UXO Contamination, Demining and Mine Incident 及び CMAC Intergrated Database チャート	//	//
21	//	Organization Chart of Cambodia National Committee	CNMC	//
22	//	Population Census Data (CD-ROM 1、2)	購入	CD-ROM
23	//	General Population Census of Cambodia 1998, Analysis of Census , Report-6 Population Projections 2001~2021	購入	書籍
24	//	Seminar on Land and Water Resources Development for Agriculture	MRCR/JICA	コピー
25	地図	5 万分 1 地形図 郭割図 (1/500,000縮小図)	MPWT	コピー
26	//	Cambodia Briefing Map 1/500,000全国地図 (1989)	購入	//
27	//	1/50,000 地形図 1 6 2 シート	購入	印刷図
28	//	Hydrographic Atlas シートindex図	MPWT	コピー
29	主題図	Cambodia Traiangle Development Zones (5 Years Master Plan)	MPWT	//
30	//	Map of population Distribution in Cambodia	IRIC	//
31	//	Cambodia Road Network 1/2,000,000	MPWT	印刷図
32	//	Kandal Road Network 1/300,000 (上記州別詳細図、サンプル)	//	印刷図
33	//	Phnom Penh Road Network 1/50,000 (同上、サンプル)	//	印刷図
34	//	Kampong Cham Road Network 1/50,000 (同上、サンプル)	//	印刷図
35	//	Maps and its Specifications (縮尺と作成元リスト)	//	印刷図
36	//	Proposed Study Area (シート割表示図)	//	//
37	//	Exisiting Condition of Aerial Photographs(撮影年次)	//	//
38	//	Location of Possible Hydroelectric Sites in Canbodia	MIME	コピー
39	//	送電線計画概要図	//	コピー
40	//	Certificate of Title (地籍図)	MLUPC	出力図
41	//	Potential Mines Contemination	CMAC	印刷図
42	//	Potential UXOs Contemination	CMAC	//
43	//	Cambodia Road Guide	MPWT	//
44	//	Schools and Clusters Map, Kampong Chhnang Province 1998-99	M.of Education	
45	//	Schools and Population, Kampong Cham Province 1998	//	
46	基準点	GPS Network 1995~1999	MLUPC	コピー

カンボディア地理情報整備調査資料入手リスト(2)

資料	区分	資料名	入手先	種別
47	法令	Leagal System of Cambodia	購入	書籍
48	//	Sub-Decree on Kingdom's Map Production Management & Exploitation	MLUPC	コピー
49	//	Sub-Decree on Organization and Function of the Ministry of Land Management ,Urban Planning and Construction	MLUPC	コピー
50	//	Guideline to implement Sub-Decree on Kingdom's Map Production Management and Exploitation	MLUPC	コピー
51	//	Sub-Decree on Organization of Structure and Functioning the Cambodian National Mekong Committee (CNMC)	MPWT	コピー
52	パンフ	Global Experience by FINNMAP	FINNMAP	印刷物
53	//	Cambodian Hydrographic Office,Water Surveys Dept.	MPWT	//
54	//	Mekong River Commission	MRC	//
55	//	Annual Report 1999 ,Mekong River Commission	MRC	
56	//	Mekong River Commission for Sustainable Development	MRC	
57	//	Agreement on the cooperation for the susutainable development	MRC	
58	//	Education Indicators 1999-2000	M.of Education	
59	データ	1/50,000 等高線データ	MRC	CD-ROM
60	積算資料	Quotation for Viehcles	民間会社	
61	//	航空写真撮影見積書 (FINNMAP社)	//	
62	//	航空写真撮影見積書 (Kevron社)	//	
63	//	マッピング関係機材見積書	//	
64		主要機器の価格比較表 (3社)	MPWT	
65	データ	1/50,000 地形図データ		CD-ROM

MPWT:Ministry of Public Works and Transport

MLMUPC : Ministry of Land Management Urban Planning and Construction,Dept of Cadastre and G

LUMO : Ministry of Agriculture,Forestry & Fisheries, Landuse Mapping Office

MRC :Mekong River Committee

MIME : Ministry of Industry, Mines and Energy

CMAC : Cambodia Mine Action Center

WSC :Watershed Committee

NIS : National Institute of Statistic, Ministry of Planning