

L. SCOPE OF WORK

I. INTRODUCTION

In response to the request of the Royal Government of the Kingdom of Cambodia (hereinafter referred to as "RGC"), the Government of Japan (hereinafter referred to as "GOJ") has decided to conduct the Feasibility Study on the Improvement of National Road No.1 (Phnom Penh – Neak Loueng Section) (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 GOJ, will undertake the Study in close cooperation with the authorities concerned of the RGC.

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

II. OBJECTIVE OF THE STUDY

The objective of the Study is to conduct a feasibility study on the improvement of National Road No.1 (Phnom Penh – Neak Loueng Section) in consideration of flood damage relief.

III. STUDY AREA

The Study area shall cover National Road No.1 (Phnom Penh – Neak Loueng Section) and relevant areas.

IV. SCOPE OF THE STUDY

1. Identification of Issues in the Project

- (1) Collection of data, review of the relevant studies, including laws and regulations, socio-economic aspects, topographic and geographical data, development plans, institutional / organizational set-up, budgetary and financial situations and environmental conditions;
- (2) Conduct of transport surveys;
- (3) Conduct of road facility inventory survey;
- (4) Formulation of the social and economic framework;
- (5) Forecast of the future transport demand;

- (6) Survey and analysis of the hydraulics-hydrology and
- (7) Conduct of initial environmental evaluation.

2. Feasibility Study

- (1) Proposal of the alternatives.
- (2) Supplementary surveys;

- (3) Preliminary design;
- (4) Preliminary operation and maintenance plan;
- (5) Preliminary cost estimates of the preliminary design;
- (6) Implementation program and,
- (7) Evaluation of the feasibility study (including environmental impact assessment, economic and financial analysis).

3. Conclusion and recommendations

V. SCHEDULE OF THE STUDY

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

VI. REPORTING SCHEDULE

JICA will prepare and submit the following reports in English to RGC.

1. *Inception Report:*
summarizing the approach and implementation schedule of the Study will be submitted in thirty-five (35) copies by the Study Team within one (1) months from the start of the Study.
2. *Progress Report:*
summarizing the results of the first site survey will be submitted in thirty-five (35) copies by the Study Team within five (5) months from the beginning of the Study.
3. *Interim Report:*
summarizing the identified issues will be submitted in thirty-five (35) copies by the Study Team within six (6) months from the start of the Study.
4. *Draft Final Report:*
summarizing the overall study results will be prepared in thirty-five (35) copies by the Study Team within nine (9) months from the start of the Study.
RGC will present its written comments in English to JICA within one (1) month from the receipt of the Draft Final Report.
5. *Final Report:*
will be submitted in forty-five copies (45) together with CD-ROM by the Study Team within one (1) month from JICA's receipt of comments on the Draft Final Report from RGC.

VII. UNDERTAKING OF THE GOVERNMENT OF CAMBODIA

1. To facilitate the smooth conduct of the Study, the RGC shall take the following necessary measures:
 - (1) to permit the members of the Japanese study team (hereinafter referred to as "the Team") to enter, leave and stay in Cambodia 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, fees and other charges on equipment, machinery and other materials brought into and out of Cambodia for the conduct of the Study;
 - (3) to exempt the members of the 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 Team for their services in connection with the implementation of the Study, and
 - (4) to provide necessary facilities to the Team for remittance as well as utilization of the funds introduced into Cambodia from Japan in connection with the implementation of the Study.

2. The RGC shall bear claims, if any arises, against the members of the Team resulting from, occurring in the course of, or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the Team.

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

4. MPWT shall, at its own expense, provide to the Team with the followings in cooperation with other organizations concerned:
 - (1) security related information on as well as measures to secure the safety of the Team.
 - (2) information on as well as support in obtaining medical services
 - (3) available data and information related to the Study,
 - (4) counterpart personnel,
 - (5) suitable office space with necessary equipment in Phnom Penh, and
 - (6) credentials or identification cards.

VIII. Others

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

TENTATIVE STUDY SCHEDULE

	1	2	3	4	5	6	7	8	9	10	11	12
Work in Cambodia		■	■	■	■		■	■		■		
Work in Japan	■					■	■			■	■	■
Reporting		△				△	△			△		△
		IC/R				P/R	IT/R			DF/R		F/R

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

Minutes of Meeting
on
The Scope of Work
for
the Feasibility Study on the Improvement of National Road No.1
(Phnom Penh – Neak Loueng Section)
in the Kingdom of Cambodia

Agreed Upon Between

Ministry of Public Works and Transport
and
Japan International Cooperation Agency

Phnom Penh, 20 December, 2001



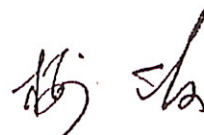
H.E. Khy Tainglim
Minister
Ministry of Public Works and Transport

Mr. Satoshi UMENAGA
Leader
Preparatory Study Team
Japan International Cooperation

Japan International Cooperation Agency (JICA) dispatched a Scope of Work (S/W) Mission, headed by Mr. Satoshi UMENAGA, to Cambodia for a period of 11 – 29 December, 2001. Ministry of Public Works and Transport and the related agencies (the Cambodian side) and the mission had a series of discussions on the S/W on 11–19 December. The Cambodian side and the Mission came to an agreement on the S/W and a signing ceremony was held on 20 December, 2001. The officials of the related agencies involved in the Study and attendants to the discussions are listed in Attachment.

The main points of discussions are summarized below:

1. Title of the Study
Both sides agreed that the Study would be focused on the conduct of the feasibility study and the name of the Study would be “ the Feasibility Study on the Improvement of National Road No.1 (Phnom Penh – Neak Loueng Section) in the Kingdom of Cambodia.
2. Year for the forecast demand
Both sides agreed that the year for the forecast demand will be determined during the Study.
3. Study Area in National Road No.1
Both sides confirmed that the section of National Road No.1 to be studied in accordance with Scope of Work IV.2 is from eastern edge of Monivong bridge in Phnom Penh to west of Neak Loueng ferry terminal (appendix). Although the feasibility study is not carried out, the Study will cover the both edges (Monivong bridge and Neak Loueng ferry) as follows;
 - 1) on the side of Phnom Penh, taking into consideration “the Transportation Master Plan of the Phnom Penh Metropolitan Area in the Kingdom of Cambodia” conducted by JICA.
 - 2) on the side of Neak Loueng, taking into consideration the transportation improvement plan without considering the new bridge over the Mekong River, such as the improvement for ferry operation plan.
4. Expected Schedule towards Grant Aid
Japanese side explained that the basic design study for the Japanese grant aid is expected to commence in 2003 after the Study.
5. Maintenance for National Road No.1
Both sides understood it is quite essential that, in collaboration with Ministry of Economic and Finance, MPWT keeps securing the necessary budget for maintenance for National Road No.1 until the commencement of the construction work designed by the Study.



6. Steering Committee and Task Force

The Cambodian side agreed to set up the Steering Committee consisting of ministries or organizations concerned and based on their existing steering committee. The Cambodian side also agreed to hold meetings whenever necessity arises. The member list will be submitted to JICA Cambodia office by the end of January 2002. And also the Task Force consists of qualified staff and ministries or organizations concerned would be set up for the study work and the effective technology transfer and the Task Force will work together with the JICA Study Team on a full time basis.

7. Land-mine Clearance

The Cambodian side agreed to clear land-mines at her own expenses when the Study team claims to clear ones.

8. Office Space

The Cambodian side agreed to secure office space with necessary equipment and facilities such as telephone line, desks, tables and airconditioners.

Attendant List of the Meeting

Cambodian Members

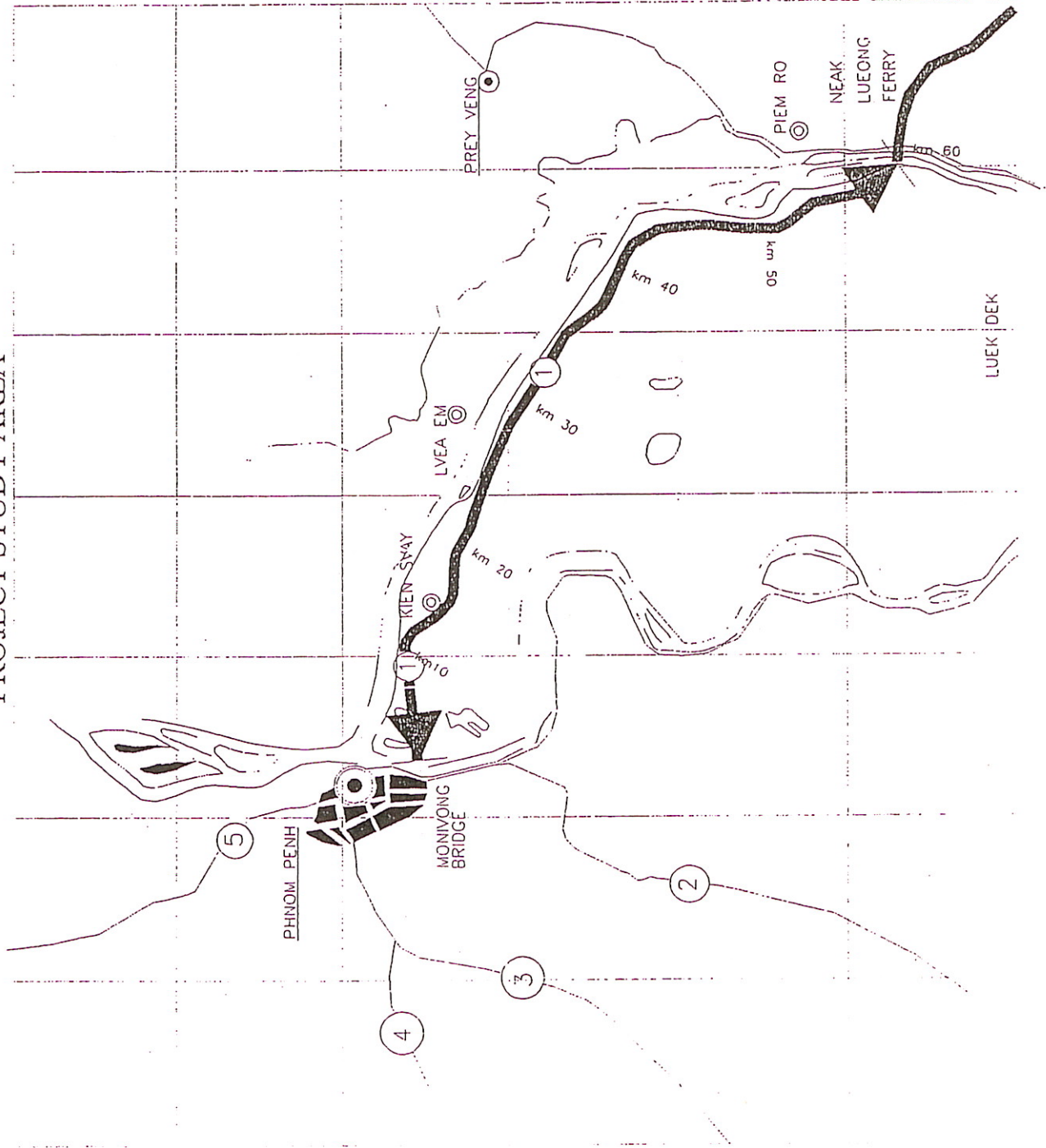
H.E. Khy Tainglim	(Ministry of Public Works and Transport)
Mr. Chhin Kong Hean	(Ministry of Public Works and Transport)
Dr. Yit Bunna	(Ministry of Public Works and Transport)
Mr. Masaru Kawamura	(Ministry of Public Works and Transport)
Mr. Phy Sophot	(Ministry of Public Works and Transport)
Mr. Vongsey Vissoth	(Ministry of Economy and Finance)

Japanese Members

Mr. Satoshi Umenaga	(Leader of the team)
Mr. Koichi Honda	(Member of the team)
Mr. Takeshi Korenori	(Member of the team)
Mr. Akihito Sanjo	(Member of the team)
Mr. Hiroshi Okada	(Member of the team)
Mr. Takenobu Suzuki	(Member of the team)
Mr. Yuji Watanabe	(Embassy of Japan)
Mr. Yukihiro Koizumi	(JICA Cambodia Office)



PROJECT STUDY AREA



M. LIST OF COLLECTED DATA

M. List of Collected Data

Area	Southeast Asia	Project Name	The feasibility Study on the Improvement of National Road No.1 (Phnom Penh - Neak Loueng Section)	Study Type	F/S	Consultant	PCI & KEI
Country	The Kingdom of Cambodia			Period of Work in Cambodia	5 May 2002 - 9 August 2002 16 September 2002 - 29 November 2002	Team Leader Mr. Kenji Maruoka	

No	Title	Type	Original/Copy	Nos	Published By	Given By
1	Agricultural Statistics, 1996-1997	Document (A4)	Original	1	Department of Planning and Statistics Ministry of Agriculture Forestr	
2	Agricultural Statistics, 1998-1999	Document (A4)	Original	1	Department of Planning and Statistics Ministry of Agriculture Forestr	
3	Agricultural Statistics, 1999-2000	Document (A4)	Original	1	Department of Planning and Statistics Ministry of Agriculture Forestr	
4	Agricultural Statistics, 2000-2001	Document (A4)	Original	1	Department of Planning and Statistics Ministry of Agriculture Forestr	
5	National Roads Network in Cambodia, Public Works Research Center	Document (A4)	Original	1	Ministry of Agriculture Forestr Transport Public Works & Research Center	
6	Cambodia: Strengthening the maintenance Planning and Management Capabilities at the MPWT TA No. 3257 - CAM, FINAL REPORT (July 2002)	Document (A4)	Copy	1	Wilbur Smith Associates	
7	First Socioeconomic Development Plan (1996 - 2000)	Document (A4)	Original	1	Ministry of Planning	
8	Cambodia: Enhancing Governance for Sustainable Development Working Paper 14	Document (A4)	Original	1	Cambodia Development Resource Institute	
9	Cambodia's Initial National Communication Under the United Nations Framework Convention on Climate Change	Document (A4)	Copy	1	Ministry of Environment	
10	MRC Strategy on Flood Management and Mitigation	Document (A4)	Original	1	Mekong River Commission	

No	Title	Type	Original/Copy	Nos	Published By	Given By
11	The Compendium of Cambodian Laws, Volume III	Document (A4)	Copy	1	Cambodian Legal Resources Development Center	
12	Cambodian Bridge Standards Project Draft Inception Report	Document (A4)	Copy	1	Ministry of Public Works & Transport Public Works, McMillan Britton & Kel	
13	Emergency Flood Rehabilitation Project, ADB Loan No: 1824-CA1 Bridge Design Standards Manua	Document (A4)	Copy	1	Ministry of Rural Development, Scott Wilson	
14	Manual for assembly and Erection of Girder Spans	Document (A4)	Copy	1	Ministry of Public Works & Transport Public Works, Kenhill Engineer PTY LTD	
15	Manual for assembly and Erection of Tress Spans	Document (A4)	Copy	1	Ministry of Public Works & Transport Public Works, Kenhill Engineer PTY LTD	

Note:

MPWT: Ministry of Public Works and Transport, MRC: Mekong River Committee, ADB: Asia Development Bank, MOE: Ministry of Environment
NICFEC: Natural and Imperial Committee for Free and Fair Election in Cambodia (Non-government Organization)