Minutes of Discussions on the Basic Design Study on the Project for the Improvement of National Road No. 1 (Phnom Penh – Neak Loeung Section) in the Kingdom of Cambodia (Supplemental Survey)

The Government of Japan decided to conduct a Supplemental Survey on the Project for the Improvement of National Road No. 1 (Phnom Penh – Neak Loueng Section) (hereinafter referred to as "the Project") to obtain additional information about the Environmental and Social Considerations for the Project.

JICA sent to Cambodia the Supplemental Survey Team (hereinafter referred to as "the Team"), headed by Mr. Hiroyuki Hayashi, an officer, Traffic Infrastructure Team, Project Management Group II of the Grant Aid Management Department, JICA, and is scheduled to stay in the country from January 23 to February 4, 2005.

The Team held discussions with the concerned officials of the Government of Cambodia.

In the course of the discussions, both sides have confirmed the main items of described in the attached sheets.

Phnom Penh, January 27, 2005

Hiroyuki Hayashi

Leader

Supplemental Survey Team

Japan International Cooperation Agency

H.E. Tram Iv Tek

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Secretary of State

Ministry of Public Works and Transport (MPWT)

Witness

H.E. Nhean Leng

Chairman

Inter-Ministerial Resettlement Committee

Under Secretary of State

Ministry of Economy and Finance

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ATTACHMENT

- 1. Extent of impacts due to the new openings
- (1) Both sides confirmed that the general stakeholder meeting involving the Inter-Ministerial Resettlement Committee (IRC), Ministry of Public Works and Transport (MPWT), Ministry of Water Resources and Meteorology (MOWRAM), Kandal Province, the Team and expert on hydrology/irrigation if any, should be held by early February 2005. The Cambodian side should confirm responsible authority/agency for water control operation and monitoring for impacts.
- (2) The Cambodian side should conduct site stakeholder meetings at each new opening. The governor of Kandal Province shall be responsible for notifying necessary information to the PAPs in advance.
- (3) In case that negative impacts generated outside of the Provisional Road Width (PRW) are confirmed by IRC and PAPs after completion of construction of new openings, the Cambodian side should take further measures to settle the case.

2. Revised leaflet for the Project

The Cambodian side explained that revised leaflet for the phase I of the Project should be provided to PAPs in phase I by early March 2005. The leaflet for the phase II of the Project should be provided to PAPs in phase II before the commencement of DMS.

- 3. Candidate sites for relocation
- (1) The Cambodian side explained that they are scheduled to secure three (3) candidate sites.
- (2) The Cambodian side agreed to carry out site preparation and provide access roads, pumping wells, drainage and toilets in each site.
- 4. Implementation of the Project
- (1) The Team explained that the implementation of the Project should be divided into more than two stages, subjected to budget allocation borne by the Government of Japan.
- (2) The Cambodian side shall report the progress of compensation agreement for the phase I of the Project to the Japanese side by the end of March 2005 and also report the above-mentioned progress for the phase II of the Project by the end of October 2005. The Government of Japan will decide the scope of each stage in accordance with the reports.
- (3) The Cambodian side submitted summary of DMS in the phase 1 as per Annex-1.
- 5. Revision of the Major Project Component

The both sides confirmed that the Major Project Component, which was attached as Annex-1 in the Minutes of Discussions for the Basic Design Study signed on October 28, 2004, should be revised as per Annex-2 due to minor changes of components.

6. Schedule of the Study

JICA will complete the Final Report in accordance with the confirmed items and send it to the Cambodian side in March 2005.

လ်ဂၽဲရာကစလားအံလားခဲ့တော်မှီလေစစ (အုံကော့_ အားလ်ပြီစ) for Improvement of Section of National Road No.1 (Throm Penh - Nenk Locung) គណៈអម្មការអនុរុវគស្ល១សំរាប់ការចារៈដោះស្រាយដីផ្លីតិ១ផ្ទះសឡែ១ Inter-Ministrial Resellement Commitee (គំពេច ខិត្តយ៨គស់ណាទរបស់រដ្ឋារមិបាល៩ម៉ឺន) (A JICA Grant Aid Project)

ථාසි භාභಣ ලාඃගොණුල KINGDOM OF CAMBOULA ලාභතාහාපුස් Nation Religion King

Summary of the Detail Measurment Survey of PAP's by National Road No.1 Improvement Project (Phnom Penh-Neak Locung) សច្ចេនចំនួនសំណច់ផ្ទះសម្បែចដីធ្លី ដែលប៉ះពាល់អ្នចគំពេចស្គារតំណាត់ផ្ទុចឋាគិលេខ ១ (ភ្នំពេញ-មុគល្មើច)

	ស្សប្រាមឃុំ Total by Commune	41 Records	265 กิมเก็ Records	212 กัมเกิ Records	838 fixin	297 FILL
	Total b	40 [fimilifons Households	248 [fimil Households	184 [nmi Households	712 [finns Households	256 [fimilifouseholds
Project Phase I from Station 23+900 to Station 54+740	សរុបចំនួនរចេលនៈទ្រព្យដែលបានធ្វើសង់ សំរិក្សិច Total Number of Detail Measurment Survey Records					
5	Commune Name	Prek Tunlorp	Kampong Phnom	Koki Thom	Samraong Thom	Banteay Dek
Running Date: 24-Jan-05	พ.เ ณฐาะหฺํ	ព្រែកទន្ទាប់	កំពង់ភ្នំ	หหังน์	ง่เกษต์	បន្ទាយដៃក
Running	19.5 19.5	-	7	3	4	ડ

ចំនួនផ្ទះ No. of Graves :	ចំនួនបេក្ខ័យ៍ : No. of Cemeteries :	ចំនួនស្រះទឹក : Jaier Ponds :	ប្រវែងរបង : 5,738.00៣ Total Fence Lengin :	វិជលព្រវចិញ : 98 cases To BuY : 30,523.42 sq.m
940 No. 0	3,714 No. of Ce	11 No. of Water Ponds	37 Total Fend	រាំ ស្រែក្រពុទ្ធដី ក្រោចំណីផ្លូន
ចំនួនសំពាម៉ា : No. of Buildings :	ចំនួនដើមឈើ : No. of Trees :	ចំនួនអព្យាជជីក : No. of Digging Welt :	ตัฐอากกุษญ์บ : No. of Pump Well :	ั้รับโทลุเหล่
1,653		1,440		
សរុបចំនួនដែលបានធ្វើសំរង់ : Total No. of Records :	. มหาเรื่องเหล่า	Total No. of Households:	22	3e

COMPLETE DATA OF PHASE 1, FROM STATION 23+900 TO STATION 54+740

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ಲಾಹಿ භಾಹಣ ព្រះಆហಾಕ್ಬ್ರಕ್ರ KINGDOM OF CAMBODIA . ලා:බදා නොපැසිස මූ ජා Nation Religion King

សំរាប់គំពេលសារឆំណាអ់ងខលាអិលេល១ (អំពេញ - មេតេល្បី១) for Improvement of Section of National Road No.1 (Philom Penh - Neak Loeung) គសា: សម្រារវេសរក្រសួចសំរាប់តារទារឈោះស្រាយដីផ្លិនិទន្ទះសម្បែរ Inter-Ministrial Resettlement Commitee (គំនោ១ ខិន្តមនឥគសំណ១ទេសំឡៅមិនាល់ខម្ម៉ូន) (A JICA Grani Aid Project)

Summary of Compensation Costs for PAP's by National Road No.1 Improvement Project (Phnom Penh-Neak Locung) လော့ မောာာစ සံလေးမေးကျော်ဝါး နော်စောစ်ရှုံး လေးမေးကေး မေးမေး မေးစညား နေသော မေးမေး စ (နှံ ကော့ - ုး နေးကြီး)

Project Phase 1 from Station 23+900 to Station 54+740= 30.840Km Running Date: 24-Jan-05

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(ឈ្លោះឃុំ	Commune Name		igan ner of PA	សរុបចំនួនគ្រួសារដែលជានធ្វើកិច្ចសន្យារួច ដោយយល់ក្រាចទទួលប្រាក់សំណង់ Number of PAP's Households, who agreed to receive the compensation payment	Total b	សុបភាមឃុំ Total by Commune	
ព្រែកទន្ទាប់	Prek Tunlorp	34	34 หากกี		, s		
កំពង់ភ្នំ	Kampong Phnom	m 236	ករណី		69		
តតិវិធី	Kokl Thom	165	หากกั		4		
ស់ពាងផ្	Samraong Thom	n 677	หาณั		\$	I	
បន្ទាយដៃក	Banteay Dek	261	หาณี		4	1	
Tok	សរុបកិច្ចសន្យាទាំងអស់មាន Total Number fo Contracts	1373		Report up to 16 January 2005 Total Amount	<u> </u>	1	
	ญบนัฐอหานที Total No. of Records	1402		Land Buy: (13,766.47m2)	пн		
Ź	Number of Landless Household = 141	shold = 141		Structures :	11		
Disagreed	Disagreed PAPs 11 households: 11 records	11 records		Digging well: (12)	n u		
S	Skipped at Bridge No.1: 22 records	22 records		Grave: (1)	11		
	No Compensation: 218 records	218 records		Trees: (3,638)	11		
				Dis. allow.: (524)	il.		

Interministerial Resettlement Comittee/AIPWT/PWRC Published by MSAccess 2000

Page 1 of 1

(15) (317)

(8)

Rese. allow.: Income<10\$:

Disable: Widow:

(116)

Major Project Component

No.	Item		Contents	
1	Road Improvement	Length: 55.98km (St	a. 0km + 000m ~5	5km+980m)
	Troub improvement		4 lanes section	: 1.80km
Š			2 lanes section	: 54.18km
2	Road Widening as Public	(1) Ordinary Market Area	* A 100 A	: 3 Locations
-	Service Facility	(2) Bus Stop / Refuge Sp.		: 20 Locations
	Jon vice r delini	(3) School / Hospital Are		: 31 Locations
		(0) 50	Hospital	: 9 Locations
3	Bridge Improvement	3 Bridges	Total Length	: 240.6m (68.8m + 100.3m + 68.8m)
-	(PC-I Shape Girder)		Reconstruction	: 2 Bridges
	(,		New Construction	: 1 Bridge
4	Culvert Improvement	9 Locations		
		- Pipe Culvert	: 2 Locat	The state of the s
	SET SET	- Box Culvert	: 7 Locat	
			* *	(New Construction : 5 Locations)
		(Total Length : Pipe	Culvert 48.4m, B	ox Culvert 107.1m)
5	Road Drainage Facility	Side Ditch	Length	: 2,230m
10.00		Pipe Culvert	Length	: 5,045m
6	Revetment and Riverbed	Revetment	At Bridge	: 3 Locations
	Protection Facility		At Culvert	9 Locations
		Riverbed Protection		
			At Bridge	: 3 Locations
			At Culvert	: 9 Locations
7	Counter Measures against	Green Belt	Total Length	: 2,230m
	Road Slope Erosion	Revetment	Total Length	: 5,610m
			Grand Total	7,840m
8	Counter Measures against	(1) Replacement by High	Quality of Soil	
	Soft Ground to Embahkmen	Mekong River Side		; 16.520km
		Colmatage Side		; 44.960km
	N .	(2) Replacement by Rive		
æ	W.	Mekong River Side		: 0.800km
		Colmatage Side		: 1.720km
9	Improvement of Intersection	2 Locations	- Chabar Ampov Ir	
			- Tiger Beer Road	Intersection
10	Ancillary Facilities	(1) Retaining Wall		6
			- Stone Masonry W	1 1 2 2 2
			 L-shape Concrete 	e Retaining Wall : 1,166m
		(2) Pavement Marking a	nd Traffic Sign	and the same and t
		- Pavement Marking	Center Line, Land	e Line, Crosswalk : 175 km
		- Traffic Sign	Regulatory Sign	: 20 Nos
		*	Warning Sign	: 112 Nos
			Informatory Sign	: 21 Nos
		(3) Guardrail and Guide	post	
		- Guardrail	Total Length	: 360m
		- Guidepost	Total Quantity	: 1,010 Nos
		(4) Median	Section Length	: 1,676m
		(5) Curb	Total Length	: 16,800m
		(6) Truck Scale		2 Nos

Minutes of Discussions on the Preparatory Study II

on the Confirmation of Environmental and Social Considerations of the Project for the Improvement of National Road No. 1

(Phnom Penh – Neak Loeung Section) in the Kingdom of Cambodia (The first field survey)

In response to the request from the Government of the Kingdom of Cambodia (hereinafter referred to as "Cambodia"), the Government of Japan decided to conduct a Preparatory Study II on the Confirmation of Environmental and Social Considerations of the Project for the Improvement of National Road No. 1 (Phnom Penh – Neak Loueng Section) (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

ЛСА sent to Cambodia the Preparatory Study Team (hereinafter referred to as "the Team"), headed by Mr. Hiroyuki Hayashi, an officer, Traffic Infrastructure Team, Project Management Group II of the Grant Aid Management Department, ЛСА, and is scheduled to stay in the country from January 23 to February 15, 2005.

The Team held discussions with the concerned officials of the Government of Cambodia.

In the course of the discussions, both sides have confirmed the main items of described in the attached sheets.

Phnom Penh, January 27, 2005

Hiroyuki Hayashi

Leader

Preparatory Study Team II

Japan International Cooperation Agency

H.E. Nhean Leng

Chairman

Inter-Ministerial Resettlement Committee

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Under Secretary of State

Ministry of Economy and Finance

Witness

H.E. Tram Iv Tek

Secretary of State

Ministry of Public Works and Transport (MPWT)

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ATTACHMENT

1. Purpose of the study

The purpose of the delegation of the Team is to support the Inter-Ministerial Resettlement Committee (IRC) to plan and carry out the proper procedures for the Environmental and Social Considerations (ESC) and/or resettlement issues for the Project in response to the request in the Minutes of Discussions for the Basic Design Study signed on October 28, 2004.

2. Grievance Committee

The Team suggested the Cambodian side that the structure and members of the Grievance Committee should be established for accepting and processing complaints from Project Affected Persons (PAPs). The Team requested the Cambodian side to take into consideration the following items;

- participation of a village elder (not a commune chief) in the Committee as committee members.
- to make PAPs aware of the function and lodging process of the Committee.
- 3. Review of the compensation items and unit prices
- (1) The both sides reconfirmed that the Cambodian side should review the compensation items and unit prices and report its results in writing to the Japanese side before the end of August 2005. The Cambodian side agreed to review the compensation items and unit prices periodically afterward in a same manner.
- (2) The Team requested the Cambodian side to include base on each unit price, such as Consumer Price Index, latest market prices and information from local authorities into the above-mentioned report.
- 4. Tentative schedule for the Detailed Measurement Survey (DMS) for phase 2 of the Project
- (1) The Cambodian side requested the Japanese side to provide necessary drawings in March 2005 for conducting DMS for phase II.
- (2) The Cambodian side will commence stakeholder meetings (public information campaign: PIC) before conducting DMS and inform the Japanese side through JICA Cambodia Office of the time schedule of the meetings in advance.
- 5. Schedule of the study
- (1) The Team will proceed to further studies in Cambodia by February 15, 2005.
- (2) JICA will dispatch the second field survey team to Cambodia around early March 2005.

APPENDIX 5	
COST ESTIMATION BORNE BY THE RORAL GOVERNMENT OF CAMBODIA	L

APPENDIX-5

5. COST ESTIMATION BORNE BY THE ROYAL GOVERNMENT OF CAMBODIA

1) COMPENSATION TO PAPS

No.	Station	Number of Affected Houses	Unit Price(US\$)	Cost(US\$)
1	0+300 - 2+000	188	1,000	188,000
2	2+000 - 13+000	695	1,000	695,000
3	13+000 - 14+000	55	1,000	55,000
4	14+000 - 22+000	422	1,000	422,000
5	22+000 - 54+760	792	1,000	792,000
	Total	2,152		USD 2,152,000

^{*} Numbers of affected house is counted base on the Drawing PRW 3 prepared by the Consultant and approved by JICA and IRC. The unit price is an approximate figure.

^{*} Break down of Unit Price

	Total		997 USD
4)	Trees	1 L.S.	350 USD
3)	Wood stand fence	$70m \times 0.76 \text{ USD} =$	53 USD
2)	Dig well	1no. x 50 USD =	50 USD
1)	Wood wall house	$42m2 \times 12 \text{ USD} =$	504 USD

Amounts of compensation for one householder are 997 USD ≒ 1,000 USD

2) RELOCATION OF POWER LINE

• High Voltage Line: 14km

<u>No.</u>	<u>Item</u>	<u>Number</u>	Unit Price(US\$)	Cost(US\$)
1	Relocation of metal pole	104nos.	1,500	156,000
2	Installation of new cable	1,000m	60	60,000
3	Relocation of cable	13,000m	30	390,000
	Sub-Total			USD 606,000

· Low Voltage Line: 10km

<u>No.</u>	<u>Item</u>	Number	Unit Price(\$)	<u>Cost(\$)</u>
1	Relocation of metal pole	250nos.	400	100,000
2	Installation of new cable	1,000m	60	60,000
3	Relocation of cable	9,000m	30	270,000
	Sub-Total			USD 430,000
	Total			USD 1,036,000

^{*} Unit Price is based on the Local Authority's quotation.

APPENDIX-5

3) RELOCATION OF FIBER OPTICAL CABLE

• Relocation Length: 55.5km

<u>No.</u> _	<u>Item</u>	Number	Unit Price(US\$)	Cost(US\$)
1	Installation of new cable	1,000m	120	120,000
2	Relocation of cable	54,500m	45	2,452,500
	Total			USD 2,572,500

^{*} Unit Price is based on the Local Authority's quotation.

4) RELOCATION OF WATER PIPE

• Relocation Length: 2km

1	Total	2,000111	10	USD 30,000
1	Installation of new cable	2,000m	15	30,000
No.	Item	Number	Unit Price(US\$)	Cost(US\$)

^{*} Unit Price is based on the Local Authority's quotation.

APPENDIX 6

REFERENCES

Appendix-6 References

LIST OF DATA COLLECTION

No. Data Name Data Name	L		£			
CLIMATE DATA YEARBOOK 2002 Report Chiginal Department of Meteorology (NURM), Ministry of Water CLIMATE DATA YEARBOOK 2002 Part - do -	No.		Data Dok/Vide o/Map/Pho to etc.	Original/C opy	Publication Agency	Publication Date
CLIMATE DATA YEARBOOK 2002 Part 1 -do- -do- International Commission on Large Dams (ICOLD) Cuttine Report on the Dispersibility Study for the Fill Dams -do- International Commission on Large Dams (ICOLD) GSD, PREK THNOT ELOOD RELIEF CHANNEL -do- -do- MWRM, Most MacDonald Ltd. Second Five-year Socio-economic Development Plan 2001- -do- -do- Ministry of Industry (MOI) Public Investment Planning and Road Maintenance Program -do- -do- Ministry of Public Works and Transport (MPWT) BENEFIT MONITORING AND EVALUATION REPORT -do- -do- May -do- Rainfall Data (1900-2001) Map -do- -do- Rainfall Data (1900-2001) Electric Copies DOM, MWRM Water Level Data of the Mckong River (1960's to 2002) -do- -do- Mckong River Commission (MRC) STRENGTHINING THE MAINTENANCE PLANNING Report -do- -do- AND MANAGEMENT CAPABILITIES AT MPWT -do- -do- -do- -do- ROAD DESIGN STANDARD -do- -do- -do- -do- CONSTRUCTION SPECIFICATION	1	CLIMATE DATA YEARBOOK 2002	Report	Original	Meteorology (DOM), Ministry of Aeteorology (MWRM)	June 2003
Land in the Report on the Dispersibility Study for the Fill Dams - do	2	CLIMATE DATA YEARBOOK 2002 Part I	- do -	- do -	- op -	September 2003
Energency Flood Rehabilitation Project Loan 1924-CAM -do - -do - -do - -do - -do - MWRM, Most MacDonald Ltd. Second Five-year Socio-economic Development Plan 2001- -do - -do - -do - Ministry of Industry (MOI) Public Investment Planning and Road Maintenance Program -do - -do - Ministry of Public Works and Transport (MPWT) BENEFIT MONITORING AND EVALUATION REPORT -do - -do - MPWT I popgraphic Maps (Scale:1/100,000) Map -do - -do - Rainfall Data (1990-2001) Data -do - -do - Rainfall Data (1990-2001) Electric Copies DOM, MWRM Water Level Data of the Mckong River (1960's to 2002) -do - -do - -do - STRENGTHNING THE MAINTENANCE PLANNING Report -do - -do - -do - AND MANAGEMENT CAPABILITIES AT MPWT Book -do - -do - -do - CONSTRUCTION SPECIFICATION -do - -do - -do - -do - CONSTRUCTION SPECIFICATION -do - -do - -do - -do - Contract S-111 RIJB	3	Outline Report on the Dispersibility Study for the Fill Dams	op	- op -	International Commission on Large Dams (ICOLD)	
Second Five-year Socio-economic Development Plan 2001- -do- -do- Ministry of Industry (MOI) Public Investment Planning and Road Maintenance Program Public Investment Planning and Road Maintenance Program - do- -do- -do- Ministry of Public Works and Transport (MPWT) Deposition Maps (Scale:1/100,000) Map -do- -do- -do- Rainfall Data (1990-2001) Data Data of the Mekong River (1960's to 2002) -do- -do- Mekong River Commission (MRC) STRENGTHAING THE MANNIENANCE PLANNING AND MANAGEMENT CAPABILITIES AT MPWT Report -do- -do- Ministry of Social Affairs, Labour and Veteran Affairs ROAD DESIGN STANDARD -do- -do- -do- -do- -do- CONSTRUCTION SPECIFICATION -do- -do- -do- -do- CONSTRUCTION SPECIFICATION -do- -do- -do- -do- Contract S-III RI IB, Rehabilitation of National Road RNII Report -do- -do- -do- DRAWINGS for CONTRACT S-II3 R21 -do- -do- -do- -do- -do- Asian Highway (AH) Classification and Design Standards -do- -do- -do-	4	Emergency Flood Rehabilitation Project Loan 1924-CAM (SF), PREK THNOT FLOOD RELIEF CHANNEL	- op -	ф	MWRM, Mott MacDonald Ltd.	September 2001
Public Investment Planning and Road Maintenance Program - do - Ado- - do - Ministry of Public Works and Transport (MPWT) BENEFIT MONITORING AND EVALUATION REPORT - do - - do - - do - - do - Topographic Maps (Scale:1/100,000) Map - do - - do - - do - Rainfall Data (1990-2001) - do - - do - Mekong River Commission (MRC) - do - STRENGTHNING THE MAINTENANCE PLANNING STRENGTHNING THE MAINTENANCE PLANNING Report Ado - - do - Mekong River Commission (MRC) AND MANAGEMENT CAPABILITIES AT MPWT Book - do - Ministry of Social Affairs, Labour and Veteran Affairs ROAD DESIGN STANDARD - do - - do - - do - - do - CONSTRUCTION SPECIFICATION - do - - do - - do - CONSTRUCTION SPECIFICATION - do - - do - - do - Contract S-111 R11B Rehabilitation of National Road RN11 Report - do - - do - BRAWINGS for CONTRACT S-113 R21 - do - - do - - do - DRAWINGS for CONTRACT S-113 R21 - do - - do - - do - Asian Hig	5	Second Five-year Socio-economic Development Plan 2001-2005	op	- op -	Ministry of Industry (MOI)	July 2002
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