CHAPTER 3

PROJECT EVALUATION & & RECOMMENDATIONS

CHAPTER 3 PROJECT EVALUATION AND RECOMMENDATIONS

3-1 Project Impacts

The Project aims to improve accessibility between poverty areas and district centers in the northern mountainous provinces by rehabilitating or constructing small to middle size bridges (less than 100m) on rural provincial/district/commune roads. By rehabilitating or constructing 43 bridges in 9 northern provinces, it is expected that poverty will be alleviated in these areas. That is, by improving accessibility between relatively developed (urban) areas and rural poor areas via the realization of all-weather roads, the Project will allow people in mountainous areas to take part in urban economic activities and to take advantage of the social services available there. Consequently, the Project is expected to narrow the socioeconomic gap between rural and urban areas. The direct and indirect positive impacts of the Project are described in the following tables below.

(1) **Direct Positive Impacts**

a) Improvement of Access to Social Services for Poverty Areas

The problem of river crossings that are impassable from 2 to 6 months of the year due to the rainy season will disappear with the proposed bridge site improvements and all-weather access to social services will be realized for residents in areas with high poverty levels. In addition, for those river crossings that are impassable for a few hours per day from 60 to 80 days of years, they also will become all-weather crossings and provide year-round access to social services for residents of poor areas.

b) Alleviation of Vehicle Restrictions & Strengthening of Transport Capacity for Bridges

For those crossings that can handle only pedestrians or bikes, or only light vehicles (i.e., vehicles weighing 2t or less), their transport capacity will be strengthened and they will be capable of handling trucks up to 16t.

c) Improvement of Traffic Safety

With the improvement of the bridge sites the problem of automobiles and bikes crossings riverbeds, which has resulted in the past in these vehicles and/or people sometimes being washed away, will be prevented.

d) Reduction in Crossing Times

Even in the dry season it takes from several minutes to half an hour to cross the bridge sites under consideration, with the planned improvements this time will be shortened to only 1 to 2 minutes.

The expected beneficiaries of the Project are as indicated in Table 3.1.1, which shows the populations, areas and villages to benefit from each of the proposed bridges.

Province	Br. No.	Bridge Name (Revised in March 2006)	Population (x 1,			ial Area n ²)		e in the Area os)
		,	Bridge Site	Total	Bridge Site	Total	Bridge Site	Total
Son La	2	Ban Sai	5.2		27		10	
	3	Ban Tum	2.9		19		6	
	4	Na Do	7.5	28.8	26	111	19	68
	5	Na Tra	6.8		21		17	
	6	Ban Pang	6.4		18		16	
	7	Na Phat	8.5		30		10	
	8	Pa Bat	17.0		95		76	
Dien Bien	9	Su Lu	33.4	73.1	180	424	114	244
	10	Ban Bung	8.4		81		26	
	11	Pac Nam (DB)	5.8		38		18	
	12	San Thang	3.4		13		15	
	14	Nam Puc	13.5		96		38	
Lai Chau	15	Huoi Dit	13.6	57.5	91	319	38	167
	16	Nam Ham	13.5		80	1	38	
	17	Nam Cum	13.5	-	39		38	
	18	Ngoi Thap	2.5		20		3	
	20	Lao Chai	3.7		41	119	2	
Yen Bai	21	Pu Trang	2.1	18.9	15		7	19
	22	Ta Tiu	5.6		17		2	
	23	Ben Cao	5.0		26		5	
	25	Thanh Phu	8.3	69.6	55		4	
	26	Ban Xeo	20.2		86		9	
Lao Cai	27	Muong Hum 2	13.5		72	228	5	23
	28	Den Sang	6.1		10		3	
	29	Soi Chat	21.5		5		2	
	30	Ban Nghien	1.7		5		6	
	31	Trinh	2.2		25	46	5	
Tuyen Quang	32	Na Nham	1.7	7.7	6		5	22
	33	Sung	2.1		10		6	
	36	Na Lan	9.7		75		53	
	37	Ta Lang	6.1		32		4	
Ha Giang	38	Suoi Dau	11.4	42.4	88	295	32	126
-	39	Diec	7.2		78		16	
	40	Lien Hiep	8.0		22		21	
	42	Pac Nam (BC)	3.0		53		15	
	43	Khuoi Nung	4.5		117		20	
Bac Can	44	Nga Ba	6.0	22.8	120	343	23	78
	46	Don Phong	5.0	-	38	-	10	-
	47	Quang Chu	4.3		15		10	
	48	Dong May	1.7		20	<u> </u>	9	
	40	Binh Long	7.0		30		50	
Cao Bang	50	Ban Sac Alt. No.1	3.4	13.5	30	95	30	94
	50	Keo Ai	1.4		15		5	
	TOTAL		334	13		80	841	
	TOTAL		334	+.J	19	00	84	+1

Table 3.1.1 Benefiting Populations, Areas and Villages

(2) Indirect Positive Impacts

e) Contribution towards Narrowing of Socioeconomic Gap between Residents Living in Mountainous and Urban Areas

With access to regional centers to be improved for residents living in mountainous areas, there will be a reduction in the socioeconomic gap between these areas as people from mountainous areas will have more opportunities to use social services such as schools, hospitals and to increase their cash income.

3.2 Recommendations

There are some activities that should be carried out in order to maximize and sustain the positive impacts of the Project. These activities are explained below.

Prompt Implementation of Erecting Superstructures after Handover

Both the Japanese and Vietnamese sides confirmed that all the bridges shall be completed within one year after receiving the superstructures from Japan. The Vietnamese side must allocate a budget for the construction of the 43 bridges in a timely manner, taking into consideration that all the bridges are of the material procurement type and that the construction cost of these bridges is more than that of the former Grant Aid projects.

Improvement of Access Roads

Some of the bridge sites that have been selected do not have suitable approach roads. In order to quickly realize the positive impacts of the improvements for these sites, it is necessary that these roads be either widened and/or rehabilitated.

Execution of Proper Maintenance for New Bridges and Access Roads

The weathering steel was adopted for all the superstructure materials of the 43 bridges in order to minimize the maintenance costs to be borne by the northern provinces, which are the poorest areas in Vietnam. However, even the weathering steel bridges require periodic inspection and proper maintenance as shown in Table 2.4.2.1. For example, the surface of the weathering steel must be kept clean without any stains in order to generate a stabilized rust layer, which will protect the inside of the steel from rusting.

APPENDICES

A.1	Members List of the Study Team
A.2	Study Schedule
A.3	List of Parties Concerned in the
	Recipient Country
A.4	Minutes of Discussions

- A.5 Geological Data
- A.6 Reference Drawings

Appendix-1: Member List of the Study Team

A.1 Member List of the Study Team

(1) The first field survey.

Name	Title	Organization
Mr. Atsushi NAKAGAWA	Deputy Leader	Project Management Group I Grant Aid Management Dept. JICA
Mr. Hideki YONEYAMA	Chief Consultant / Road Planner	Oriental Consultants Co., Ltd.
Mr. Keigo KONNO	Bridge Planner / Designer 1	Oriental Consultants Co., Ltd.
Mr. Toshio UENO	Bridge Planner / Designer 2	Oriental Consultants Co., Ltd.
Mr. Syuhei MORIMOTO	Bridge Planner / Designer 3	Oriental Consultants Co., Ltd.
Mr. Yasukazu KOBAYASHI	Natural Condition Surveyor 1 (Hydrologist)	Oriental Consultants Co., Ltd.
Mr. Hitoshi OKITA	Natural Condition Surveyor 2 (Topography and Geology)	Oriental Consultants Co., Ltd.

(2) The second field survey

Name	Title	Organization
Mr. Atsushi NAKAGAWA	Deputy Leader	Project Management Group I Grant Aid Management Dept. JICA
Mr. Hideki YONEYAMA	Chief Consultant / Road Planner	Oriental Consultants Co., Ltd.
Mr. Keigo KONNO	Bridge Planner / Designer 1	Oriental Consultants Co., Ltd.
Mr. Hiroshi TANAKA	Environmental and Social Consideration Analyst	Oriental Consultants Co., Ltd.
Mr. Yasukazu KOBAYASHI	Natural Condition Surveyor 1 (Hydrologist)	Oriental Consultants Co., Ltd.
Mr. Hitoshi OKITA	Natural Condition Surveyor 2 (Topography and Geology)	Oriental Consultants Co., Ltd.
Mr. Yoshiki MIYAZAKI	Procurement Planner / Cost Estimator	Oriental Consultants Co., Ltd.

(3) Explanation of Draft Final Report

Name	Title	Organization
Mr. Yasuhiro TOJO	Leader	Deputy Resident Representative JICA Hanoi Office
Mr. Hideki YONEYAMA	Chief Consultant / Road Planner	Oriental Consultants Co., Ltd.
Mr. Syuhei MORIMOTO	Bridge Planner / Designer	Oriental Consultants Co., Ltd.

Appendix-2: Study Schedule

A.2 Study Schedule

(1) The first field survey

	Rate D	reien Study	Deputy Leader	Chief Gones Bark / Road Planner	Drides Planner /Oesigner 1	Drides Planner / Designar 2	Brideo Flanner /Designer 3	Natural Conditions, 1 Obstrologist 2	Natural Conditions 1 Clops & Gao, Survey
		Tean	Atsuchi Nakagawa	Kidakii Yonayomo	Keigo Konne	ToskiUera	Syuhei Morimota	Yasukatu Kobayashi	Ritcolt i Ok No.
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7	5	Sun			Dec	section and Data Arrangem	ent among the Team Mon	ibers	
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28	77	Thu			Signing on MD,	Report to BOU, JBOR		141,752 Hanai 29,95	
26	24	Fri				i - Narita (20:55) - 6:45			

(2) The second field survey

	Reis D	nier Study Town	Deputy Leader	Ohier Consultant /Road Planner	Gridge Planner /Decigner 1	Bridge Planner /Designer 2	Bridge Planner /Decigner 0	Natural Conditions: 1 Objetrobalist0	Natural Conditions 3 (Topo, 8 Geo, Survey
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(3) Explanation of Draft Final Report

	Basic Design Study		Leader	Chief Consultant /Road Planner	Bridge Flanner /Decigner S		
		Team	Yasuhiro Tojo	Hidek i Yonesawa	Soukei Morimeto		
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2	12	Tue	in Hanoil - EOULIDA, M	2 EOUJUCA, MOT : Counterp Call and Explanation of Draft Final Rep			
3	12	Wed	Explanation of Draft Report and Discussion with FMUE8				
4	14	Thu	Detail Discussion with PMU18				
5	15	Fri	Discuss	ion and Preparation of M/D wit	N PHILTS		
6	16	Set		Site Sarrey			
7	17	Sun	Internal Meeting				
8	18	Max	Signing on M/D; Report to BDJ; JBCA				
9	19	Tue	(Hanoi - Narita) JM 5136 00 10 - 6 48				

Appendix-3: List of Parties Concerned in the Recipient Country

A.3 List of Parties Concerned in the Recipient Country

Organization	Name	Title	1 st Survey	2 nd Survey	Draft Expla -nation
	Mr. Trung Tan Vien	General Director, Planning and Investment Department			
Ministry of Transport(MOT)	Mr. Ha Khac Hao	Deputy Director General, Planning and Investment Department			
	Mr. Nguyen Ngoc Hai	Senior Expert, Planning and Investment Department			
	Mr. Doan Van Chiem	Acting General Director			
Projects	Mr. Lam Van Hoang	Director, Project Implementation Division 2			
Management	Mr. Ngo Quang Tuan	Deputy Director, PID 2			
Unit18(PMU18)	Mr. Nguyen Duc Loi	Deputy Director, PID 2			
	Mr. Nguyen Hai Nam	Expert, PID 2			
	Mr. Bui Minh Tan	Deputy Director, DOT			
	Mr. Nguyen Van Ninh	Deputy Director, DOT			
	Mr. Lac Quang Hoc	Chief of Transport Management Department, DOT			
Son La Prov.	Mr. Nguyen Xuan Khuc	Expert, DOT			
5011 La 110V.	Mr. Tran Thanh Hai	Vice Chairman, Moc Chau DPC			
	Mr. Nguyen Van Nhan	Chairman, Yen Chau DPC			
	Mr. Le Quang Vinh	Chief of Infrastructure, Yen Chau DPC			
	Mr. Dang Ngoc Hau	Chief of Administration, Yen Chau DPC			
	Mr. Vo Tri Duc	Deputy Director, DOT			
	Mr. Pham Thanh Huyen	Deputy Chief of General Planning Department, DOT			
	Mr. Vi Van Phang	Chairman, Dien Bien Dong DPC			
Dien Bien Prov.	Mr. Hai	Vice Chairman, Dien Bien Dong DPC			
	Mr. Nguyen Quoc Hieu	Chief of Economic Infrastracture, Dien Bien Dong DPC			
	Mr. Nugyen Minh Trinh	Deputy Chief of Economic Infrastracture, Dien Bien Dong DPC			

Organization	Name	Title	1 st Survey	2 nd Survey	Draft Expla -nation
	Mr. Ca Van Sun	Technical Expert, Dien Bien Doung DPC			
	Mr. Lo Van Ngan	Secretary, Keo Lon Commune PC			
	Mr. Sung Va Chong	Chairman, Keo Lon Commune PC			
Dien Bien Prov.	Mr. Vuong Thi Nhung	Vice Chairman, Keo Lon Commune PC			
	Mr. Nuguyen Huu Thinh	Chairman, Tuan Giao DPC			
	Mr. lo van Le	Deputy Chief of Economic Infrastracture, Tuan Giao DPC			
	Mr. Thanh	Chief of Planning Division, DOT			
	Mr. Vu Ngoc Ban	Deputy Chief of Economic – Planning, DOT			
Lai Chau Prov.	Mr. Nguyen Xuan Hoy	Chief of Economic – Infrastructure Department, DOT			
Lui Chuu 110V.	Mr. Tran Van Sang	Vice Chairman, Muan Te DPC			
	Mr. Nguyen Van Giap	Deputy Chief Administrator, DPC			
	Mr. Lu Van Huong	Deputy Chief of Economic – Infrastructure, DPC			
	Mr. Nguyen Ngoc Dung	Director, DOT			
	Mr. Nguyen Nanh Yen	Chief of Rural Transport Division, DOT			
Lao Cai Prov.	Mr. Dang Van Luong	Chief of Engineering & Planning Division, DOT			
	Mr. Tran Dac Hoai	Expert, DOT			
	Mr. Kien Van Dung	Expert, DOT			
	Mr. Truong Thi Minh Phuong	Vice Director of PMU, DOT			
Tuyen Quang Prov.	Mr. Ngyen Vu Trang	Vice Director of PMU, DOT			
	Mr. Vu Phu Cuang	Officer, DOT			
	Mr. Vu Van Quynh	Director, DOT			
Yen Bai Prov	Mr. Nguyen Van Du	Chief engineering and planning Division, DOT			
	Ms. Nguyen Thi Thi	Deputy Chief Engineering and Planning Division, DOT			
	Mr. Tran Anh Tuan	Expert, DOT			

Organization	Name	Title	1 st Survey	2 nd Survey	Draft Expla -nation
	Mr. Cuong	Deputy Director, DOT			
	Mr. Ha Van Huong	Director of Transport Management Division, DOT			
Bac Can Prov.	Mr. Dinh Van Dung	Vice Chief of Rural Management, DOT			
Bac Can Prov.	Mr. Le Luc	Expert, DOT			
	Mr. Hung	Expert, DOT			
	Mr. Ngo Thuong Hien Expert, DOT				
	Mr. Loi Nung	Deputy Director, DOT			
	Mr. Sung	Deputy Director, DOT			
Cao Bang Prov.	Mr. Nong Minh Toan	Deputy Director of Planning Department, DOT			
	Mr. Luc Van Ken	Chairman, DPC			
	Mr. Do Tan Thu	Deputy Director, DOT			
Ha Giang Prov.	Mr. Hoang Van Thanh	Director of Planning Division, DOT			
	Mr. Bao	Deputy Director of Planning Division, DOT			
ThangLongMechanical&ConstructionCompany	Mr. Nguyen Van Chuong	Director, Hoaag Ha, Manager of Planning-Economic Dept.			

PMU: Projects Management Unit

DOT: Department of Transport

DPC: District People's Committee

Appendix-4: Minutes of Discussion

A.4 Minutes of Discussion

(1) The first field survey.

Minutes of Discussions on the Basic Design Study on the Project for the Improvement of Rural Bridges in Northern Mountainous Provinces of the Socialist Republic of Vietnam

Referring to the results of Preliminary Study conducted in September 2005, the Government of Japan decided to conduct a Basic Design Study on the Project for the Improvement of Rural Bridges in Northern Mountainous Provinces of the Socialist Republic of Vietnam (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent to Vietnam the Basic Design Study Team (hereinafter referred to as "the Team"), which is managed by Mr. Kunihiro Yamauchi, Group Director, Project Management Group I, Grant Aid Management Department, JICA, and headed by Mr. Atsushi Nakagawa, Transportation and Electric Power Team of the Project Management Group I, the Grant Aid Management Department, JICA, and is scheduled to stay in the country from February 27 to March 23, 2006.

The Team held discussions with the concerned officials of the Government of Vietnam. Both sides have confirmed the main items of discussions as described in the attached sheets.

Mr. Atsushi Nakagawa Deputy Leader Basic Design Study Team Japan International Cooperation Agency

Hanoi, March 23, 2006

Dr. Ha Khac Hao Deputy Director General Department of Planning and Investment Ministry of Transport Socialist Republic of Vietnam

Eng. Doan Van Chiem Acting General Director Project Management Unit 18 Ministry of Transport Socialist Republic of Vietnam

1. Objective of the Project

The objective of the Project is to improve the rural road network in nine (9) northern provinces of Vietnam, namely Bac Kan, Cao Bang, Son La, Tuyen Quang, Ha Giang, Yen Bai, Lai Chau, Lao Cai and Dien Bien by constructing rural bridges.

Project Site

The sites of the Project are located in nine provinces as shown in Annex-1.

However, the final sites of the Project are subject to further studies in Japan.

Responsible and Implementing Organizations

- 3-1 The responsible ministry is the Department of Planning and Investment, Ministry of Transport (hereinafter referred to as "MOT").
- 3-2 The implementing organization is Projects Management Unit 18, Ministry of Transport (hereinafter referred to as "PMU18").

The organization charts of MoT and PMU18 are shown in Annex-2.

4. Items Requested by the Government of Vietnam

After discussions with the Team, the Vietnamese side finally requested the procurement of the steel girders of 52 rural bridges as shown in Annex-3.

JICA will further assess the appropriateness of the request and will report the findings to the Government of Japan.

5. Japan's Grant Aid Scheme

The Vietnamese side has a full understanding of the Japan's Grant Aid scheme and the necessary measures to be taken by the Vietnamese side as explained by the Preliminary Study Team and described in the Annex-4 and 5 of the Minutes of Discussions signed by both sides on September14, 2005.

- Schedule of the study
 - 6-I. JICA will dispatch a mission for the second field survey around the end of May, 2006.
 - 6-2. Based on the first and second field survey, JICA will prepare the draft report in English and dispatch a mission to Vietnam in order to explain its contents around the end of October,

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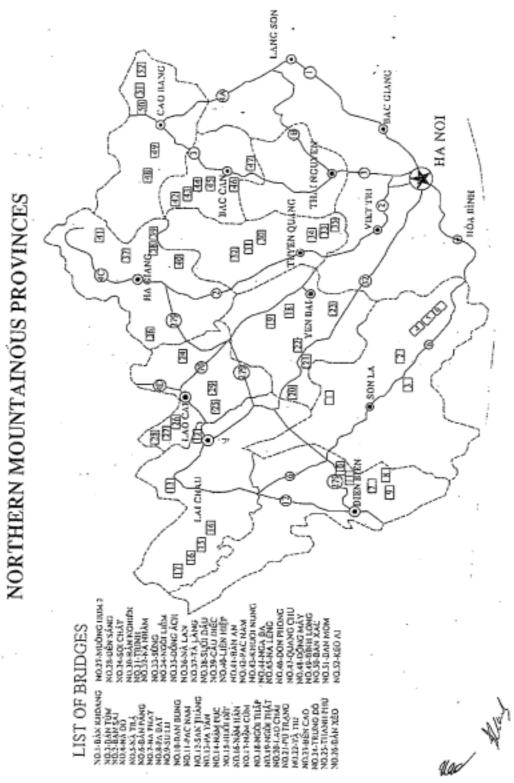
2006.

- 6-3: When the contents of the draft report are accepted in principle by the Government of Vietnam, JICA will complete the final report and send it to the Government of Vietnam by November, 2006.
- Other Relevant Items
 - 7-1 The Vietnamese side had conducted an Initial Environmental Examination (IEE) level study with technical support by the Preliminary Study Team and the result satisfied the requested level of the JICA Guidelines.
- *7-2 Both sides confirmed the IEE report will be examined through the site survey of the Basic Design Study for its coverage of scopes and validity.
- 7-3 Environmental Initial Assessment (EIA) will be implemented by Vietnamese side according to regulations of Vietnam.
- 7-4 In the case that the Project is implemented, the Vietnamese side shall complete the construction of all bridges in 1 year from the date of the delivery of materials. It is confirmed that the Vietnamese side is also responsible for the following measures
 - securing the land for stock yard of materials 3 months prior to the delivery.
 - demolition of existing bridges if necessary,
 - design work of substructure,
 - securing the land for construction of bridges and connecting roads, and
 - construction of connecting road.

Annex-1 Project Site Map Annex-2 Organization Chart Annex-3 List of Bridges

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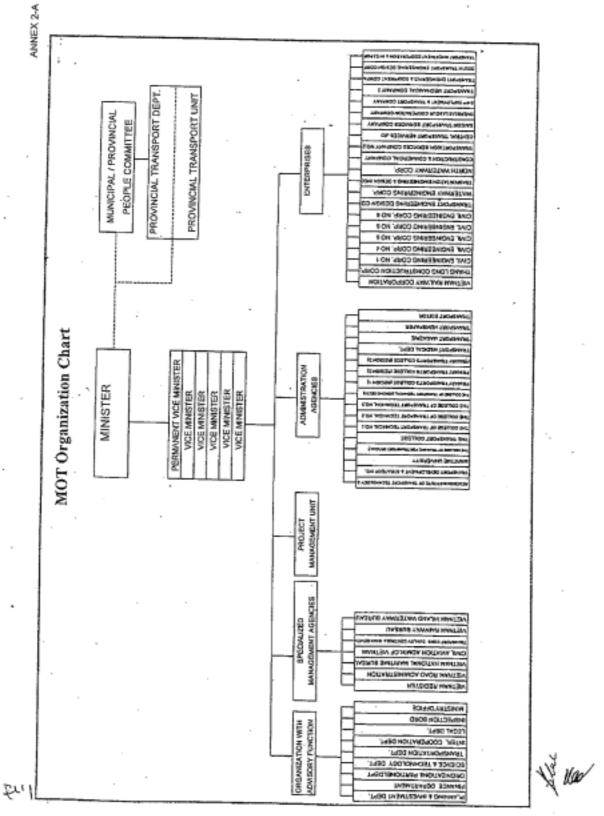
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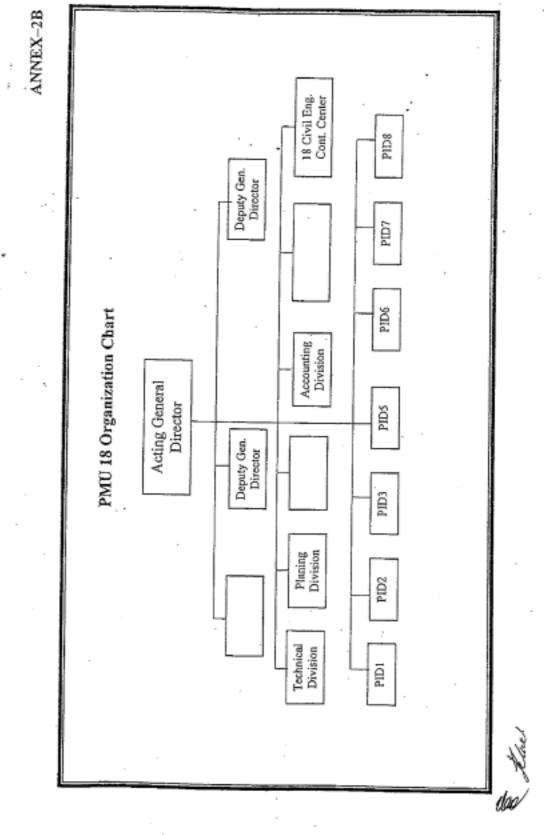


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BRIDGES LOCATION MAP

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LIST OF BRIDGES

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The project for improvement of rural bridges in northern mountainous provinces of Viet Nam

No of	Name of Bridge				Length of Bridge
Bridge		Commute	District	Province	(proposed)
1	Ban Khoang	Chleng Khoang	Quynh Nhai		30
2	Ban Sai	Sap Vet	Yen Citiau	-	45
3	Ban Tum	Chieng Khoi	Yen Chau	Son La	65
4	Na Do	Chieng Khoa	Moc Chau	Joon La	50
5	Na Tra	Chieng Khoa	Moc Chau	1	40
6	 Bart Pang 	Chieng Khoa	Moc Citau	7	30
7	Na Phat	Na Son	Dien Bien Dong		65
8	Pa Bat	Phi Nhu	Dien Blen Dong	1	30
. 9	Su Lu	Keo Lom	Dien Bien Dong	Dien Bien	90
10	San Sung	Bung Lao	Tuan Gieo	1	40
+ 11	Pag Nam .	Muong Lan	Tuan Giao	1 1	50
12	San Thang	Ta Leng	Tam Duong		
13	Pa Tan	Pa Tan	Sin Ho		90
14	Nam Puc	Nam Khao	and the second se		90
15	Huoi Dit	Nam Kheo	Muong Te	Lai Chau	55
16	Nam Han	Muong Ta	Muong Te		45
17	Nam Cam	Muong Te -	Muong Te	-l·	65
18	Ngoi Thap		Muong Te		65
19		Houng Thang	Van Yen	4 1	60
20	Ngoi That	Tan Hop	Van Yes	4 1	60
21	Lao Chai	Lao Chai	Mu Cang Chol	Yen Bai	60
22	Pu Trang	TX Nghia Lo	Nghia Lo		80
23	TaTiu	Phu Nhám	Van Chan		80
	Ben Cao	Chan Thinh	Van Chan		\$0
24	Trung Do	Bao Nha!	Bac Ha		60
25	Thanh Phu	Thanh Phu	Sa pa] [90
26	Ban Xeo	Ban Xeo	Bat Xat	Lao Cai	49
27	Muong Hum 2	Muong Hum	flat Xat	Laucai	50
28	Den Sang	Den Sang	Bat Xat	1 1	30
29	Soi Trat	Son Hai	- Sao Thang		60
30	Ban Nghian	Tri Phu	Chiem Hoa		90
31	Trinh .	Vish Quang	Chiem Hea	1 1	70
32	Na Nham	Vinh Loc	Chiem Hoa	- 1	50
33	Sung	Dong Lol	Sen Duong	Tuyen Quang	40
34	Ngoi Liem	Dong Tho	Son Duong	1 1	40
35	Dong Ach	Son Nam	Son Duong		40
36	Na Lan	Ta Nhiu	Xin Man		40
37	Ta Lang	Tung Ba	WI Xuyen		50
38	Suol Deu	Ngoc Linh	Vi Xuyen		
39	Diec	Bach Ngoo	Vi Xuyen	Ha Giang	40
60	Lien Hiep	Lien Hiep			40
41	Ban An	Ngoc Long	Bac Quang Yen Minh		40
42	Pag Nam	Bang Thanh			89
43	Khuol Nung	the second se	Pac Nam		40
44		Bang Thanh	Pac Nam		40
45	Nga Ba	Bang Thanh	Pac Nam	Bac Kan	40
46	Na Lenig	Quan Binh	Bach Thong		50
40	Don Phong	Don Phong	Bech Thong		86
	Quang Chu	Guang Chu	Cho Mol		99
48	Dong May	Luong Can	Thong Nong		80
49	Binh Long	Binh Long	Hoa An		70
60	Ban Sac	Quang Trung	Tra Linh	 Cao Bang 	60
51.	Ban Mom	Dam Thuy	Trung Khanh	- F	99
-62	Keo Al	Minh Long	Ha Lang		

Had.

List of participants for M/D on March 23.

CỘNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM Độc lập - Tự do - Hạnh phúc

DANH SÁCH THAM DU HOP (List of Participants)

CHUTRI (Chairman): Há Khái Háo Vu Pho Vy KIGOT. NOI DUNG (Content): Fy Bey Bays Than Ling MD

Hộm nay (Date), ngày 3 tháng S năm 200 6 Địa điểm Venue): Bộ Gĩ Vĩ

TT	Họ và tên	Chức vụ	Đơn vị công tác	Ký nhận
No.	(Name)	(Title)	(Organization)	(Signature)
1	KEIQO KONNÖ	BRIDGEPLANDER	TEASTUDY	An
2	Arsushi NABAGAW		JICA	見い海史
3	Hidek Kungam	Chroz Censultering	JICHSTEDI TOHY	********
4	Ha liliar Han	P. Vielanday	VULHAT	Marcus
5	Ngujê, Mez Kai	duyê Vie		
6	Joan Vin Chilin	Orgin Taj grandis	PMULS.	Elune
_7	Law Vin Kerny	Tuni pleny		(thore
8	Ngo Quay Trui	p. Tuning please		t tag
9	Ugayin Vai Nau	- chuya vier,	- ·	1 Loie
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(2) The second field survey.

Minutes of Discussions on the Basic Design Study on the Project for the Improvement of Rural Bridges in Northern Mountainous Provinces of the Socialist Republic of Vietnam (Second Field Survey)

Referring to the results of Preliminary Study conducted in September 2005, the Government of Japan decided to conduct a Basic Design Study on the Project for the Improvement of Rural Bridges in Northern Mountainous Provinces of the Socialist Republic of Vietnam (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (hereinafter referred to as "JICA").

JICA sent to Vietnam the Basic Design Study Team (Second Field Survey) (hereinafter referred to as "the Team"), which is managed by Mr. Kunihiro Yamauchi, Group Director, Project Management Group I, Grant Aid Management Department, JICA, and headed by Mr. Atsushi Nakagawa, Transportation and Electric Power Team of the Project Management Group I, the Grant Aid Management Department, JICA, and is scheduled to stay in the country from May 22 to July 11, 2006.

The Team held discussions with the concerned officials of the Government of Vietnam. Both sides have confirmed the main items of discussions as described in the attached sheets.

Mr. Atsushi Nakagawa Deputy Leader Basic Design Study Team Japan International Cooperation Agency

Hanok May 26, 2006

Dr. Ha Khac Hao Deputy Director General Department of Planning and Investment Ministry of Transport Socialist Republic of Vietnam

auc 12

Eng. Dean Van Chiem Acting General Director Project Management Unit 18 Ministry of Transport Socialist Republic of Vietnam

ATTACHMENT

1. Interim Report

The Vietnamese side has understood the contents of the Interim Report explained by the Team and accepted in principle.

2. Items Requested by the Government of Vietnam

Based on the result of the studies and the analysis by the Team, both sides had discussions on the components of the Project. After the discussions, the Vietnamese side finally requested the procurement of the steel girders of 43 rural bridges as shown in Annex.

JICA will further assess the appropriateness of the request and will report the findings to the Government of Japan.

- 3. Schedule of the study
 - 3-1. The Team will continue the study in Vietnam until July 11 2006.
 - 3-2. Based on the studies both in Vietnam and Japan, JICA will prepare the draft report in English and dispatch a mission to Vietnam in order to explain its contents around the end of October, 2006.
 - 3-3. After the contents of the draft report are accepted in principle by the Government of Vietnam, JICA will complete the final report and send it to the Government of Vietnam by November, 2006.
- 4. Other Relevant Items
 - 4-1 Environmental Impact Assessment (EIA) will be implemented by the Vietnamese side according to regulations of Vietnam.
 - 4-2 Both sides confirmed that, in the case of the Project implementation, the Vietnamese side shall complete the construction of all bridges within one (1) year from the date of the delivery of materials.
 - 4-3 Both sides confirmed that the Vietnamese side is responsible for the following measures;
 - securing the land for stock yard of materials 3 months prior to the delivery,
 - design work of substructure prior to the delivery of materials,
 - securing the land for construction of bridges and connecting roads,
 - reshipment of materials from province capitals to construction sites, and
 - construction of connecting road.

Annex: List of Bridges

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100 day

ANNEX

The Project for	Improvement of F	Rural Bri	idges in	Northern	Mountainous Province	9
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21 Pu Trang 5.5 72 Composed Simple Girder 23 Ta Tu 5.5 81 Composed Simple Girder 23 Dan Cao 5.5 81 Composed Simple Girder 24 Dan Cao 5.5 81 Composed Simple Girder 23 Thanh Phu 5.5 60 Composed Simple Girder (or Sizel Th 25 Thanh Phu 5.5 62 Composed Simple Girder (or Sizel Th 28 Ban Xao 6.5 60 Composed Simple Girder (or Sizel Th 28 Dun Sang 4.5 54 Composed Simple Girder (or Sizel Th 29 Sol Chot 4.5 64 Composed Simple Girder (or Sizel Th 30 Ban Nation 4.5 64 Composed Simple Girder (or Sizel Th 31 Trinh 5.5 64 Composed Simple Girder (or Sizel Th 33 Sung 5.5 54 Composed Simple Girder (or Sizel Th 34 Don Dau	Province	Br. No.	Bridge Name	(m)	Bridge Longth (m)	Superstructure Type
Sen La 3 Bm Tum 4.3 60 Composed Simple Glider 5 Na Tra 4.4 4.6 30 Composed Simple Glider 6 Ban Pang 4.5 30 Composed Simple Glider 7 Na Pint 4.5 30 Composed Simple Glider 8 Pa Biat 5.5 90 Composed Simple Glider 9 Sp La 5.4 98 Composed Simple Glider 11 Pace Nam(DD) 4.5 70 Composed Simple Glider 12 Sas Triang 4.5 72 Composed Simple Glider 13 Pace Nam(DD) 4.5 72 Composed Simple Glider 14 Nam Puno 4.5 72 Composed Simple Glider 15 Had Dit 4.5 72 Composed Simple Glider 16 Nom Flam 4.5 72 Composed Simple Glider 17 Nam Cum 4.5 72 Composed Simple Glider 17 Nam Cum 4.5 72 C		SEC.	Ban Khong	H-CARGERERS.	0.248	CONTRACTOR STATES AND
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8 Pa Bat 5.5 90 Composed Simple Glider 9 Statu 5.4 90 Composed Simple Glider 10 Statu 5.4 90 Composed Simple Glider 11 Pac Nam (DB) 4.5 42 Composed Simple Glider 11 Pac Nam (DB) 4.5 72 Composed Simple Glider 12 San Trang 4.5 72 Composed Simple Glider 13 Hud DB 4.5 72 Composed Simple Glider 14 Nam Fum 4.6 60 Composed Simple Glider 15 Hud DB 4.5 72 Composed Simple Glider 16 Nam Rum 4.6 60 Composed Simple Glider 18 Ngbi Theg 5.5 48 Composed Simple Glider (m Ben Tr 20 Colin Coal 5.5 72 Composed Simple Glider (m Ben Tr 21 Pan Coal 5.5 72 Composed Simple Glider (m Ben Tr 22 Dan Coal 5.		6	Ban Pang	4.5	30	Composed Simple Gilder
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Note) Dimension and superstructure type of bridges are subject to change according to the result of further study. 43 bridges are selected, but may be reduced based on the result of second field survey.

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CÔNG HÒA XÃ HỘI CHỦ NGHĨA VIỆT NAM Độc lập - ĩự do - Hạnh phúc

DANH SÁCH THAM DU HOP (List of Participants)

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List of participants for M/D on May 26

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No.	(Name)	(Title)	(Organization)	(Signature)
1	Hideki Yoneyamo	chief Consultant	JUASTIN Team	7
2	Aticush, Makergass.	1		米小吃市
3	Keigo KONNO	11)
4	Vi King Ching	Phoen Die		
5	Ha Khai Hao			
6	Maryin Northan	CV	YVy ICKOT	Thencron
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(3) Explanation of Draft Final Report

Minutes of Discussions on the Basic Design Study on the Project for the Improvement of Rural Bridges in Northern Mountainous Provinces of the Socialist Republic of Vietnam (Explanation of Draft Final Report)

In February and May 2006, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched the Basic Design Study Team on the Project for the Improvement of Rural Bridges in Northern Mountainous Provinces of the Socialist Republic of Vietnam (hereinafter referred to as "the Project"). Through discussions, field survey and technical examination of the results in Japan, JICA prepared a draft report of the study.

In order to explain and to consult with the officials concerned of the Government of the Socialist Republic of Vietnam (hereinafter referred to as "Vietnam") on the components of the draft report, JICA sent to Vietnam the Basic Design Explanation Team (hereinafter referred to as "the Team"), headed by Mr. Yasuhiro Tojo, Deputy Resident Representative of JICA Vietnam Office, from December 11 to December 18, 2006.

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

Mr. Yasuhiro Tojo Leader Basic Design Explanation Team Japan International Cooperation Agency

Hanoi, December 18, 2006

Dr. Ha Khac Hao Deputy Director General Department of Planning and Investment Ministry of Transport Socialist Republic of Vietnam

que

Eng. Doan Van Chiem Acting General Director Project Management Unit 18 Ministry of Transport Socialist Republic of Vietnam

ATTACHMENT

1. Contents of the Draft Report

The Vietnamese side agreed and accepted in principle the contents of the Draft Report and the Draft Material Specifications explained by the Team.

2. Japan's Grant Aid Scheme

The Vietnamese side has a full understanding of the Japan's Grant Aid scheme and the necessary measures to be taken by the Vietnamese side as explained by the Preliminary Study Team and described in the Annex-4 and Annex-5 of the Minutes of Discussions signed by both sides on September 14, 2005.

3. Schedule of the Study

JICA will complete the Final Report in accordance with the confirmed items and send it to the Vietnamese side by the end of February 2007.

4. Other Relevant Issues

- 4-1. Both sides confirmed that, in the case of the Project implementation, the Vietnamese side shall complete the construction of all bridges within one (1) year from the date of the delivery of materials.
- 4-2. Both sides confirmed that the following undertakings should be taken by the Vietnamese side at its own expenses.
 - (a) Acquisition of construction sites and lands necessary to perform temporary work, and compensation for relocation of houses from construction sites,
 - (b) Removal or relocation of public utilities,
 - (c) Removal of existing bridges and construction of detour roads, if necessary,
 - (d) Design and Construction of substructures, slabs, pavements and handrails for the bridges, approach roads, protection work and supervision of the construction activities,
 - (e) Provision of storage yards for materials and equipment for superstructure procured by the Japanese side in each province center by the time of unloading them,
 - (f) Transportation of the materials and equipment procured by the Japanese side from storage yards to the proposed bridges sites,
 - (g) For the proposed truss bridges, completion of substructure works by the time of arrival of the materials and equipment procured by the Japanese side, and prompt implementation of superstructure works,
 - (h) Installation of bridge inscription plates offered by the Japanese side,
 - (i) Exemption of tax on materials and equipment for superstructure of the proposed bridges and prompt customs clearance, and
 - (j) Public relations and dealing with complaints raised by affected persons, if any.

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List of participants for M/D on December 18

Chairman: Mr. Ha Khac Hao - Deputy Director of Investment Planning Department (DPI) - Ministry of Transportation (MOT)

Content: Signing on M/D for "the Project for Improvement of Rural Bridges in Northern Mountainous Provinces"

Date: December 18, 2006 Venue: Ministry of Transportation

No.	Name	Title	Organization		
1	Dr. Ha Khac Hao	Deputy Director	DPI - MOT		
2	Mr. Nguyen Ngoc Hai	Expert	DPI - MOT		
5	Mr. Doan Van Chiem	Acting General Director	PMU18		
6	Mr. Lam Van Hoang	Director	PID2 - PMU18		
6	Mr. Ngo Quang Tuan	Deputy Director	PID2 - PMU18		
7	Mr. Nguyen Hai Nam	Expert	PID2 - PMU18		
8	Mr. Yasuhiro Tojo	Senior Deputy Resident Representative	JICA Vietnam JICA Study Team Leader		
9	Mr. Masayuki Hayashi	Deputy Resident Representative	JICA Vietnam		
10	Dr. Hideki Yoneyama	Chief Consultant	JICA Study Team (Oriental Consultants Co. Ltd.)		
11	Mr. Syuhei Morimoto	Bridge Planner/Designer	JICA Study Team (Oriental Consultants Co. Ltd.)		