

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.

Table 3.1.1 Benefiting Populations, Areas and Villages

Province	Br. No.	Bridge Name (Revised in March 2006)	Population in the Area (x 1,000)		Beneficial Area (km ²)		No. of village in the Area (Nos)	
			Bridge Site	Total	Bridge Site	Total	Bridge Site	Total
Son La	2	Ban Sai	5.2	28.8	27	111	10	68
	3	Ban Tum	2.9		19		6	
	4	Na Do	7.5		26		19	
	5	Na Tra	6.8		21		17	
	6	Ban Pang	6.4		18		16	
Dien Bien	7	Na Phat	8.5	73.1	30	424	10	244
	8	Pa Bat	17.0		95		76	
	9	Su Lu	33.4		180		114	
	10	Ban Bung	8.4		81		26	
	11	Pac Nam (DB)	5.8		38		18	
Lai Chau	12	San Thang	3.4	57.5	13	319	15	167
	14	Nam Puc	13.5		96		38	
	15	Huoi Dit	13.6		91		38	
	16	Nam Ham	13.5		80		38	
	17	Nam Cum	13.5		39		38	
Yen Bai	18	Ngoi Thap	2.5	18.9	20	119	3	19
	20	Lao Chai	3.7		41		2	
	21	Pu Trang	2.1		15		7	
	22	Ta Tiu	5.6		17		2	
	23	Ben Cao	5.0		26		5	
Lao Cai	25	Thanh Phu	8.3	69.6	55	228	4	23
	26	Ban Xeo	20.2		86		9	
	27	Muong Hum 2	13.5		72		5	
	28	Den Sang	6.1		10		3	
	29	Soi Chat	21.5		5		2	
Tuyen Quang	30	Ban Nghien	1.7	7.7	5	46	6	22
	31	Trinh	2.2		25		5	
	32	Na Nham	1.7		6		5	
	33	Sung	2.1		10		6	
Ha Giang	36	Na Lan	9.7	42.4	75	295	53	126
	37	Ta Lang	6.1		32		4	
	38	Suoi Dau	11.4		88		32	
	39	Diec	7.2		78		16	
	40	Lien Hiep	8.0		22		21	
Bac Can	42	Pac Nam (BC)	3.0	22.8	53	343	15	78
	43	Khuoi Nung	4.5		117		20	
	44	Nga Ba	6.0		120		23	
	46	Don Phong	5.0		38		10	
	47	Quang Chu	4.3		15		10	
Cao Bang	48	Dong May	1.7	13.5	20	95	9	94
	49	Binh Long	7.0		30		50	
	50	Ban Sac Alt. No.1	3.4		30		30	
	52	Keo Ai	1.4		15		5	
TOTAL			334.3		1980		841	

(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

Basic Design Study Team			Deputy Leader	Chief Consultant / Road Planner	Bride Planner / Designer 1	Bride Planner / Designer 2	Bride Planner / Designer 3	Natural Conditions 1 (Hydrologist)	Natural Conditions 2 (Topo. & Geo. Survey)	
Date			LEAO	IDCC	IDCC	IDCC	IDCC	IDCC	IDCC	
1	Feb 27	Mon		Mr. K. Hara 2 JAL701 18:05-22:30		Mr. K. Hara 2 JAL701 18:05-22:30			Mr. K. Hara 2 JAL701 18:05-22:30	
2	28	Tue		Gr. Hara 2 SOJ, MOT : Courtesy Call and Explanation of IC-R		Gr. Hara 2 SOJ, MOT : Courtesy Call and Explanation of IC-R			Gr. Hara 2 SOJ, MOT : Courtesy Call and Explanation of IC-R	
3	Mar 1	Wed		Discussion with PM219		Discussion with PM219			Data Collection of F/S DATA by PM219	
4	2	Thu		Discussion with PM219		Discussion with PM219				
5	3	Fri		Discussion with PM219	Mr. K. Hara 2 JAL701 18:05-22:30	Discussion with PM219	Mr. K. Hara 2 JAL701 18:05-22:30	Mr. K. Hara 2 JAL701 18:05-22:30		
6	4	Sat	Trial Site Survey for Standardization of Survey Method among the Study Team at Br. No.30, 08							
7	5	Sun	Discussion and Data Arrangement among the Team Members							
9	6	Mon	Area C - Bac Can Prov.	Area A - San La Prov.	Area B - Tuyen Quang Prov.	Area D - Bac Can Prov.			Data Collection	
9	7	Tue	Dr. No.45, No.46 back to Hanoi							
10	8	Wed	Technical Study: Data Collection and Arrangement, Team Management at Hanoi	Br. No.1, No.2, No.3, No.4, No.5, No.6	Br. No.28, No.29, No.30, No.31, No.32, No.33, No.34, No.35	Dr. No.42, No.43, No.44, No.45, No.46, No.47		Data Collection from weather station etc. and Hydraulic Analysis	Hanoi - Hoa Kiem - Ninh - Vinh (JL702)	
11	9	Thu								
12	10	Fri		Area A - Dien Bien Prov.	Area B - Yen Bai Prov.	Area C - Cao Bang Prov.				
13	11	Sat								
14	12	Sun		Br. No.7, No.8, No.9, No.10, No.11	Dr. No.18, No.19, No.20, No.21, No.22, No.23	Dr. No.48, No.49, No.50, No.51, No.52				
15	13	Mon							in San La Prov.	
16	14	Tue		Area A - Lai Chau Prov.	Area B - Lao Cai Prov.	Area C - Ha Giang Prov.			in Tuyen Quang Prov.	
17	15	Wed							in Bac Can Prov.	
18	16	Thu		Br. No.12, No.13, No.14, No.15, No.16, No.17	Dr. No.24, No.25, No.26, No.27, No.28, No.29	Dr. No.36, No.37, No.38, No.39, No.40, No.41			in Cao Bang Prov.	
19	17	Fri							Back to Hanoi	
20	18	Sat		back to Hanoi	back to Hanoi	back to Hanoi		Hydraulic Analysis in Hanoi		
20	19	Sun	Mr. K. Hara 2	Discussion and Data Arrangement among the Team Members						
22	20	Mon	Gr. Hara 2 SOJ - Courtesy Call & Discussion			Preparation of Survey Report	Data Collection for Hydraulic Analysis in Hanoi			
23	21	Tue	Gr. Hara 2 MOT - Courtesy Call & Discussion							
24	22	Wed	Gr. Hara 2 PM219 - Courtesy Call & Discussion							
25	23	Thu	Signing on MS. Report to SOJ, J04					JAL702 Hanoi 20:05		
26	24	Fri	Hanoi - Ninh JAL702 (20:05) - 6:45							

(2) The second field survey

	Basic Design Study Team		Deputy Leader	Chief Consultant / Road Planner	Bridge Planner / Designer 1	Bridge Planner / Designer 2	Bridge Planner / Designer 3	Natural Conditions 1 (Hydrobasin)	Natural Conditions 2 (Topo. & Geo. Survey)
	Date	Day	Arayuki Nakagawa	Hideki Toyozumi	Keiji Komae	Tochi Ueno	Eisaku Morimoto	Yasuhiko Kobayashi	Hiroyuki Ohno
1	May 22	Mon	Osaka-Hanoi	JAL761 Hanoi 16:18-Hanoi 21:08					
2	23	Tue	In Hanoi	EOJ, JICA, RPT, RDT: Courtesy Call and Explanation of Mission-R					
3	24	Wed		Explanation of Mission-R to PMUTB and Discussion					
4	25	Thu		Discussion with PMUTB and Preparation of Technical Note					
5	26	Fri		Signing an RD Report to EOJ, JICA					
6	27	Sat	Hanoi - Naha	Finalization of S/W and Agreement Draft for Subcontract					
7	28	Sun			JAL126 Hanoi 1:08-Hanoi 18:30			JAL731 Hanoi 9:45-JAL-NK1911 Naha 15:00	
8	29	Mon		Preparation of Tendering Work					
9	30	Tue		Explanation of S/W to Tenderers		Collect Data to Prepare the Mitigation Measures	Collect Data and Reference Materials for Hydraulic Analysis	Preparation of Tendering Work	
10	31	Wed		Tendering for Subcontract				Explanation of S/W to Tenderers	Tendering for Subcontract
11	June 1	Thu							
12	2	Fri	JAL152 Hanoi 23:08 - Naha 08:41	Site Trip with Subcon. In San Lu No.2, 3, 4	Site Trip to Bridges San Lu Prov. Br. No.2 Ban Sai No.8 Ban Phang	Site Trip to Bridges Ban Sai Prov. Br. No.18 Ban Bang	Site Trip with Subcontractor		
13	3	Sat		In Dien Bien No.10, No.11	Dien Bien Prov. Br. No.9 Ban Lu	In Tuyen Quang Prov. Back to Hanoi			
14	4	Sun		In Dien Bien No.7, No.9	Hue Bai Prov. Br. No.28 Lao Cai				
15	5	Mon		In Dien Bien No.10	Hue Bai Prov. Br. No.22 Ta Thu				
16	6	Tue		back to Hanoi	back to Hanoi				
17	7	Wed		Report to JICA	Canh Dien Prov. No.49 Binh Leng				
18	8	Thu		JAL138(Hanoi 23:00 - Naha 06:40)	Ban Canh Prov. No.45 Ban Phang back to Hanoi				
19	9	Fri			Report to JICA				
20	10	Sat			Discussion with PMUTB about mitigation				
21	11	Sun			JAL 9135 (Hanoi 23:00 - Naha 06:40)				JAL9135 Hanoi 1:08 - Naha 14:20
22	12	Mon				Hydraulic Analysis and Preparation of Survey Report in Hanoi			
23	13	Tue							
24	14	Wed							
25	15	Thu							
26	16	Fri							
27	17	Sat							
28	18	Sun							
29	19	Mon							
30	20	Tue							
31	21	Wed							
32	22	Thu							
33	23	Fri							
34	24	Sat							
35	25	Sun							
36	26	Mon							
37	27	Tue							
38	28	Wed							
39	29	Thu							
40	30	Fri							
41	July 1	Sat							
42	2	Sun							
43	3	Mon							
44	4	Tue							
45	5	Wed							
46	6	Thu							
47	7	Fri							
48	8	Sat							
49	9	Sun							
50	10	Mon							
51	11	Tue							

(3) Explanation of Draft Final Report

Basic Design Study Team			Leader	Chief Consultant / Road Planner	Bridge Planner / Designer 3
			Yasuhiro Tojo	Hideki Yoneyama	Syukui Morimoto
Date			(JICA)	(JICA)	(JICA)
1	Dec. 11	Mon		(Narita-Hano) JAL751 18:05-22:20	
2	12	Tue	In Hano	EO-JICA, MOT : Courtesy Call and Explanation of Draft Final Report	
3	12	Wed	Explanation of Draft Report and Discussion with PMUEB		
4	14	Thu	Detail Discussion with PMUEB		
5	15	Fri	Discussion and Preparation of M/D with PMUEB		
6	16	Sat	Site Survey		
7	17	Sun	Internal Meeting		
8	18	Mon	Signing on M/D Report to EO-JICA		
9	19	Tue		(Hano - Narita) JAL5136 00:10 - 0:48	

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 Explanation
Ministry of Transport (MOT)	Mr. Trung Tan Vien	General Director, Planning and Investment Department			
	Mr. Ha Khac Hao	Deputy Director General, Planning and Investment Department			
	Mr. Nguyen Ngoc Hai	Senior Expert, Planning and Investment Department			
Projects Management Unit 18 (PMU18)	Mr. Doan Van Chiem	Acting General Director			
	Mr. Lam Van Hoang	Director, Project Implementation Division 2			
	Mr. Ngo Quang Tuan	Deputy Director, PID 2			
	Mr. Nguyen Duc Loi	Deputy Director, PID 2			
	Mr. Nguyen Hai Nam	Expert, PID 2			
Son La Prov.	Mr. Bui Minh Tan	Deputy Director, DOT			
	Mr. Nguyen Van Ninh	Deputy Director, DOT			
	Mr. Lac Quang Hoc	Chief of Transport Management Department, DOT			
	Mr. Nguyen Xuan Khuc	Expert, DOT			
	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			
Dien Bien Prov.	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			
	Mr. Hai	Vice Chairman, Dien Bien Dong DPC			
	Mr. Nguyen Quoc Hieu	Chief of Economic Infrastructure, Dien Bien Dong DPC			
	Mr. Nguyen Minh Trinh	Deputy Chief of Economic Infrastructure, Dien Bien Dong DPC			

Organization	Name	Title	1 st Survey	2 nd Survey	Draft Explanation
Dien Bien Prov.	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			
	Mr. Vuong Thi Nhung	Vice Chairman, Keo Lon Commune PC			
	Mr. Nguyen Huu Thinh	Chairman, Tuan Giao DPC			
	Mr. lo van Le	Deputy Chief of Economic Infrastructure, Tuan Giao DPC			
Lai Chau Prov.	Mr. Thanh	Chief of Planning Division, DOT			
	Mr. Vu Ngoc Ban	Deputy Chief of Economic – Planning, DOT			
	Mr. Nguyen Xuan Hoy	Chief of Economic – Infrastructure Department, DOT			
	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			
Lao Cai Prov.	Mr. Nguyen Ngoc Dung	Director, DOT			
	Mr. Nguyen Nanh Yen	Chief of Rural Transport Division, DOT			
	Mr. Dang Van Luong	Chief of Engineering & Planning Division, DOT			
	Mr. Tran Dac Hoai	Expert, DOT			
	Mr. Kien Van Dung	Expert, DOT			
Tuyen Quang Prov.	Mr. Truong Thi Minh Phuong	Vice Director of PMU, DOT			
	Mr. Ngyen Vu Trang	Vice Director of PMU, DOT			
	Mr. Vu Phu Cuang	Officer, DOT			
Yen Bai Prov	Mr. Vu Van Quynh	Director, DOT			
	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 Explanation
Bac Can Prov.	Mr. Cuong	Deputy Director, DOT			
	Mr. Ha Van Huong	Director of Transport Management Division, DOT			
	Mr. Dinh Van Dung	Vice Chief of Rural Management, DOT			
	Mr. Le Luc	Expert, DOT			
	Mr. Hung	Expert, DOT			
	Mr. Ngo Thuong Hien	Expert, DOT			
Cao Bang Prov.	Mr. Loi Nung	Deputy Director, DOT			
	Mr. Sung	Deputy Director, DOT			
	Mr. Nong Minh Toan	Deputy Director of Planning Department, DOT			
	Mr. Luc Van Ken	Chairman, DPC			
Ha Giang Prov.	Mr. Do Tan Thu	Deputy Director, DOT			
	Mr. Hoang Van Thanh	Director of Planning Division, DOT			
	Mr. Bao	Deputy Director of Planning Division, DOT			
Thang Long Mechanical & Construction Company	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.

Hanoi, March 23, 2006

中川 淳史

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



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

ATTACHMENT

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.

2. 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.

3. 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 September 14, 2005.

6. Schedule of the study

6-1. 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.

7. Other Relevant Items

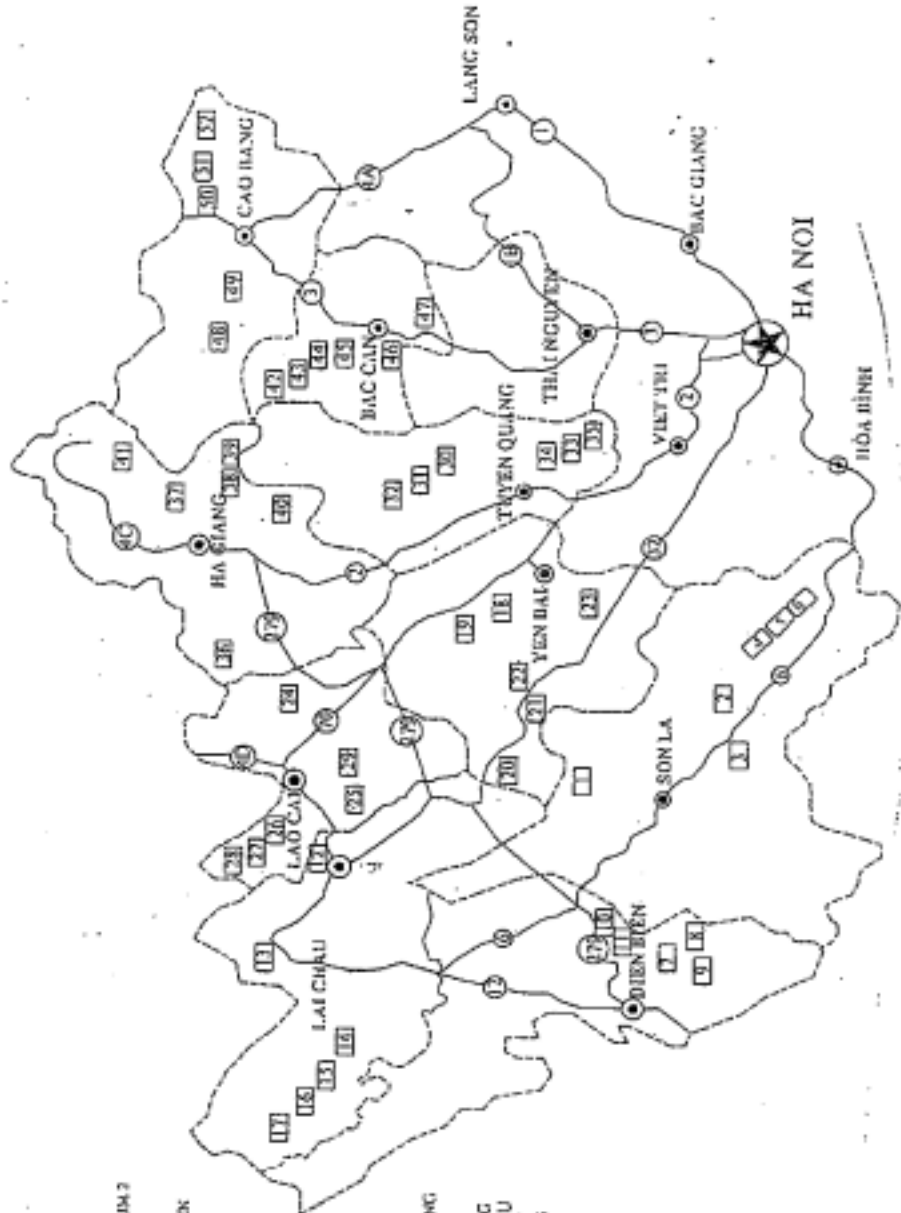
- 7-1 The Vietnamese side had conducted an Initial Environmental Examination (IEE) level study with technical support by the Preliminary Study Team and the result satisfied the requested level of the JICA Guidelines.
- 7-2 Both sides confirmed the IEE report will be examined through the site survey of 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

7.1

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BRIDGES LOCATION MAP NORTHERN MOUNTAINOUS PROVINCES



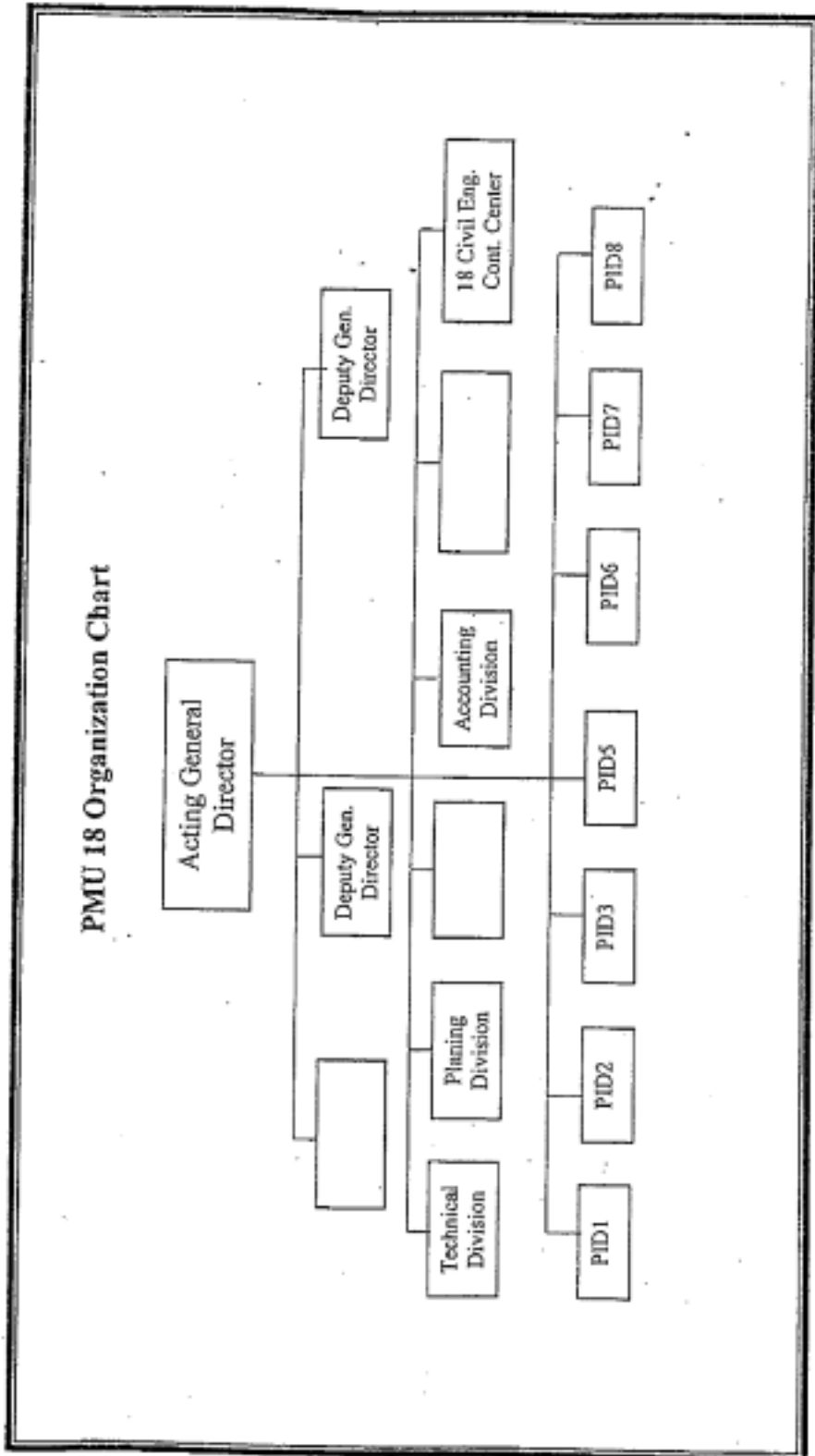
LIST OF BRIDGES

- NO.1-BÁN KHƯƠNG
- NO.2-BẢN TÀN
- NO.3-BẢN CỤ
- NO.4-KHÁ ĐÀ
- NO.5-KHÁ TRỊ
- NO.6-BẢN PẮNG
- NO.7-NA PHẠY
- NO.8-PA ĐÁT
- NO.9-SU LÌ
- NO.10-DAN BUNG
- NO.11-PÁC NẠM
- NO.12-SAN TIANG
- NO.13-PA TÀN
- NO.14-NĂM PÚC
- NO.15-HỒN LỢT
- NO.16-NĂM HẸN
- NO.17-NĂM CỬN
- NO.18-MỒI TẾP
- NO.19-NHỒN THẮT
- NO.20-LẠO CHÁU
- NO.21-PÙ TRÀNG
- NO.22-TÁ THỦ
- NO.23-ẨM CAO
- NO.24-TRUNG ĐỒ
- NO.25-TIỀN HI PHU
- NO.26-ĐẢN XEO
- NO.27-MƯỜNG TRIM 3
- NO.28-ĐỀN SÁNG
- NO.29-SỢ CHÁY
- NO.30-RẮN KHỚN
- NO.31-TU NH
- NO.32-KA NHAM
- NO.33-ĐỒNG
- NO.34-NGUYỄN LỄM
- NO.35-ĐỒNG ACH
- NO.36-NÀ LẠN
- NO.37-TÀ LĂNG
- NO.38-SUỐI ĐÁU
- NO.39-CÁU ĐIEC
- NO.40-LIÊN HIỆP
- NO.41-RẮN AN
- NO.42-PÁC NẮM
- NO.43-KHUỒI NUNG
- NO.44-NGA ĐÀ
- NO.45-NÀ LỀNG
- NO.46-DON PHONG
- NO.47-QUANG CHU
- NO.48-ĐỒNG MÂY
- NO.49-BÌNH LÔNG
- NO.50-BẢN XÁC
- NO.51-DAN MỜM
- NO.52-KEO AI

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PMU 18 Organization Chart



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LIST OF BRIDGES

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

No of Bridge	Name of Bridge	Location			Length of Bridge (proposed)
		Commune	District	Province	
1	Ban Khoang	Chieng Khoang	Quynh Nhai	Son La	30
2	Ban Sai	Sap Vat	Yen Chau	Son La	45
3	Ban Tum	Chieng Khoi	Yen Chau	Son La	55
4	Na Do	Chieng Khoa	Moc Chau	Son La	50
5	Na Tra	Chieng Khoa	Moc Chau	Son La	40
6	Ban Pang	Chieng Khoa	Moc Chau	Son La	30
7	Na Phat	Na Son	Dien Bien Dong	Dien Bien	55
8	Pa Bat	Phi Nhu	Dien Bien Dong	Dien Bien	30
9	Su Lu	Keo Lom	Dien Bien Dong	Dien Bien	90
10	Ban Bung	Bung Lao	Tuan Giao	Dien Bien	40
11	Pac Nam	Muong Lan	Tuan Giao	Dien Bien	50
12	San Thang	Ta Leng	Tam Duong	Lai Chau	90
13	Pa Tan	Pa Tan	Sin Ho	Lai Chau	90
14	Nam Puc	Nam Khao	Muong Te	Lai Chau	55
15	Huoi Dit	Nam Khao	Muong Te	Lai Chau	45
16	Nam Han	Muong Te	Muong Te	Lai Chau	55
17	Nam Cam	Muong Te	Muong Te	Lai Chau	55
18	Ngoi Thap	Hoang Thang	Van Yen	Yen Bai	60
19	Ngoi That	Tan Hop	Van Yen	Yen Bai	60
20	Lao Chai	Lao Chai	Mu Cang Chai	Yen Bai	90
21	Pu Trang	TX Nghia Lo	Nghia Lo	Yen Bai	80
22	Ta Tiu	Phu Nham	Van Chan	Yen Bai	80
23	Ben Cao	Chan Thinh	Van Chan	Yen Bai	90
24	Trung Do	Bao Nhai	Bao Ha	Lao Cai	80
25	Thanh Phu	Thanh Phu	Se pa	Lao Cai	30
26	Ban Xeo	Ban Xeo	Bat Xat	Lao Cai	40
27	Muong Hum 2	Muong Hum	Bat Xat	Lao Cai	50
28	Dan Sang	Dan Sang	Bat Xat	Lao Cai	30
29	Soi Trat	Son Hai	Bao Thang	Lao Cai	60
30	Ban Nghien	Tri Phu	Chiem Hoa	Tuyen Quang	90
31	Trinh	Vinh Quang	Chiem Hoa	Tuyen Quang	70
32	Na Nham	Vinh Loc	Chiem Hoa	Tuyen Quang	90
33	Sung	Dong Loi	Son Duong	Tuyen Quang	40
34	Ngoi Liem	Dong Tho	Son Duong	Tuyen Quang	40
35	Dong Ach	Son Nam	Son Duong	Tuyen Quang	40
36	Na Lan	Ta Nhu	Xin Man	Ha Giang	40
37	Ta Lang	Tung Ba	Vi Xuyen	Ha Giang	50
38	Suoi Dao	Ngoc Linh	Vi Xuyen	Ha Giang	40
39	Diec	Bach Ngoc	Vi Xuyen	Ha Giang	40
40	Lien Hiep	Lien Hiep	Bac Quang	Ha Giang	40
41	Ban An	Ngoc Long	Yen Minh	Bac Kan	85
42	Pac Nam	Bang Thanh	Pac Nam	Bac Kan	40
43	Khuoi Nung	Bang Thanh	Pac Nam	Bac Kan	40
44	Nga Ba	Bang Thanh	Pac Nam	Bac Kan	40
45	Na Leng	Quan Binh	Bach Thong	Bac Kan	50
46	Don Phong	Don Phong	Bach Thong	Bac Kan	85
47	Quang Chu	Quang Chu	Cho Moi	Bac Kan	99
48	Dong May	Luong Can	Thong Nong	Cao Bang	80
49	Binh Long	Binh Long	Hoa An	Cao Bang	70
50	Ban Sac	Quang Trung	Tra Linh	Cao Bang	60
51	Ban Mon	Dam Thuy	Trung Khanh	Cao Bang	99
52	Keo Ai	Minh Long	Ha Lang	Cao Bang	30

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 DỰ HỌP
(List of Participants)

CHỦ TRÌ (Chairman): Hà Khai Hào - Vụ Phó Vụ KRDĐT.
NỘI DUNG (Content): Họp Bên Bais Tham Luân MD

Hôm nay (Date), ngày 23 tháng 3 năm 2006

Địa điểm Venue): Bà GI VI.

TT No.	Họ và tên (Name)	Chức vụ (Title)	Đơn vị công tác (Organization)	Ký nhân (Signature)
1	KEI QO KONNO	BRIDGE PLANNER	JICA STUDY TEAM	
2	ATSUSHI NAKAGAWA	Deputy Leader	JICA	
3	Hideki Yungawa	Chief Consultant	JICA STUDY TEAM	
4	Hà Khai Hào	p. Vụ trưởng	VUKHĐT	
5	Nguyễn Ngọc Hải	Chuyên viên	-	
6	Đoàn Văn Chiến	Chủ tịch giám đốc	PMU 11B	
7	Lâm Văn Hoàng	Tổng phòng	-	
8	Ngô Quang Tuấn	p. Tổng phòng	-	
9	Nguyễn Hải Nam	Chuyên viên	-	
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(2) The second field survey.

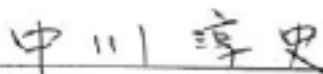
Minutes of Discussions
on the Basic Design Study
on the Project for the Improvement of Rural Bridges
in Northern Mountainous Provinces of the Socialist Republic of Vietnam
(Second Field Survey)

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.

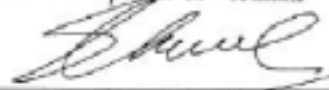
Hanoi, May 26, 2006



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



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

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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The Project for Improvement of Rural Bridges in Northern Mountainous Provinces

Province	Br. No.	Bridge Name	Bridge Width (m)	Bridge Length (m)	Superstructure Type
Son La	1	Mãn Khong			
	2	Bản Sải	4.5	42	Composed Simple Girder
	3	Bản Tầm	4.5	60	Composed Simple Girder
	4	Nà Đé	4.5	38	Composed Simple Girder
	5	Nà Trá	4.5	46	Composed Simple Girder
	6	Bản Pàng	4.5	30	Composed Simple Girder
Điện Biên	7	Nà Phat	4.5	54	Composed Simple Girder
	8	Pá Bát	5.5	90	Composed Simple Girder
	9	Sá Lú	5.5	96	Composed Simple Girder
	10	Bản Đung	5.5	31	Composed Simple Girder
	11	Pác Nặm (DB)	4.5	42	Composed Simple Girder
Lai Châu	12	Sản Thang	4.5	30	Composed Simple Girder
	13	Tà Tán			
	14	Nậm Pao	4.5	72	Composed Simple Girder
	15	Huổi Dít	4.5	21	Composed Simple Girder
	16	Nậm Hám	4.5	60	Composed Simple Girder
	17	Nậm Cúm	4.5	72	Composed Simple Girder
Yên Bái	18	Ngòi Thia	5.5	48	Composed Simple Girder
	19	Ngòi Thia			
	20	Lào Chải	4.5	54	Composed Simple Girder (or Steel Truss)
	21	Mù Tráng	5.5	72	Composed Simple Girder
	22	Tà Tù	5.5	99	Composed Simple Girder
Lào Cai	23	Bản Cáo	5.5	81	Composed Simple Girder
	24	Thung Đa			
	25	Trần Phú	5.5	99	Composed Simple Girder (or Steel Truss)
	26	Bản Xào	6.5	60	Composed Simple Girder (or Steel Truss)
	27	Mường Hum 2	6.5	72	Composed Simple Girder
	28	Dản Sàng	4.5	24	Composed Simple Girder
Tuyên Quang	29	Sỏi Chát	4.5	94	Composed Simple Girder
	30	Bản Nghien	4.5	60	Composed Simple Girder
	31	Tính	5.5	81	Composed Simple Girder (or Steel Truss)
	32	Nà Nhám	5.5	99	Composed Simple Girder
	33	Sung	5.5	33	Composed Simple Girder
	34	Ngòi Liên			
Hà Giang	35	Dông Aich			
	36	Nà Lan	4.5	54	Composed Simple Girder (or Steel Truss)
	37	Tà Láng	4.5	54	Composed Simple Girder
	38	Suối Dầu	4.5	54	Composed Simple Girder
	39	Đèo	4.5	48	Composed Simple Girder
	40	Linh Hiệp	4.5	39	Composed Simple Girder
Bắc Cạn	41	Bản An			
	42	Pác Nặm (BC)	5.5	33	Composed Simple Girder
	43	Khuổi Nùng	5.5	33	Composed Simple Girder
	44	Nga Ba	5.5	42	Composed Simple Girder
	45	Nà Lằng			
	46	Dản Phang	5.5	75	Composed Simple Girder
Cao Bằng	47	Quang Chu	5.5	99	Composed Simple Girder
	48	Dông Mây	5.5	81	Composed Simple Girder
	49	Bình Long	7.0	99	Composed Simple Girder
	50	Bản Séc	5.5	63	Composed Simple Girder
	51	Nậm Môn			
	52	Kèo Ai	4.5	33	Composed Simple Girder

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

DANH SÁCH THAM DỰ HỌP
(List of Participants)

CHỦ TRÌ (Chairman): Mr. Hà Khắc Tào, Vụ Phó Vụ KMDT
 NỘI DUNG (Content): Hợp về di sản XD Cầu GTVT
 (Nội dung khác liên quan đến dự án)
 Hôm nay (Date), ngày 28 tháng 5 năm 2006
 Địa điểm (Venue): Bộ GTVT.

TT No.	Họ và tên (Name)	Chức vụ (Title)	Đơn vị công tác (Organization)	Ký nhậm (Signature)
1	Keigo KONNO	Member	JICA Study Team	
2	Hidaki Yonoyama	(Chief Consultant)	"	米山 秀樹
3	Atsushi Nakagawa	Member	"	中川 淳史
4	Hà Khắc Tào	Chủ trì	Vụ KMDT	} Nguyễn Ngọc Hải
5	Nguyễn Ngọc Hải	CV	"	
6	Nguyễn Văn Anh	CV	Cục GD & ĐĐT	}
7	Đào Văn Chiến	Phụ trách Ban 15	Ban ĐLCĐ 15	
8	Lâm Văn Trọng	Trưởng Phòng P102	"	}
9	Ngô Đăng Tuấn	P. Trưởng Phòng P102	"	
10	Nguyễn Lai Năm	CV	"	
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List of participants for M/D on May 26

DANH SÁCH THAM DỰ HỌP
(List of Participants)

CHỦ TRÌ (Chairman): M.V. Hà Khắc Hào - Vụ Phó Vụ KKDĐT
 NỘI DUNG (Content): Kỹ M.D.

Hôm nay (Date), ngày 26 tháng 5 năm 2006

Địa điểm Venue: Bộ GTVT

TT No.	Họ và tên (Name)	Chức vụ (Title)	Đơn vị công tác (Organization)	Ký nhậ (Signature)
1	Hideki Yoneyama	Chief Consultant	JICA Study Team	* 11/2/06
2	Atsushi Nakagawa	Member	"	
3	Keigo KONO	"	"	
4	Vũ Kim Chung	Phườn Diel	"	Vu KKDĐT
5	Hà Khắc Hào	Phó vụ Tổng	Vụ KKDĐT	
6	Nguyễn Ngọc Hải	CV	Vụ KKDĐT	Cục GDĐCL
7	Nguyễn Tuấn Anh	CV	Cục GDĐCL	
8	Đoàn Văn Chiêm	PTGD		LGD
9	Lưu Văn Hoàng	Tư vấn Pháp P102	PMMK	
10	Ngô Công Tiến	P. Tư vấn Pháp P102		
11	Ngô Đình Thái	P. Tư vấn Pháp P102		
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(3) Explanation of Draft Final Report

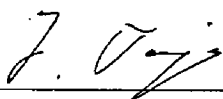
**Minutes of Discussions
on the Basic Design Study
on the Project for the Improvement of Rural Bridges
in Northern Mountainous Provinces of the Socialist Republic of Vietnam
(Explanation of Draft Final Report)**

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.

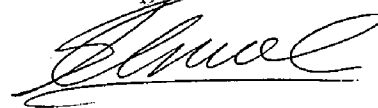
Hanoi, December 18, 2006



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



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

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.)