

2-2-4-7 Software Component

Since the related personnel at the Project schools lack sufficient knowledge for correct facility use and maintenance methods, proper maintenance activities have not been implemented. Considering this situation, the Project will introduce a software component in order that each Project school will utilize Project facilities in an effective and sustainable way. Targeting members of the school management committees at the Project schools, the following activities will be implemented: 1) workshops will be held to analyze current situations and problems regarding maintenance activities at each schools and to raise awareness among participants; 2) guidelines will be produced for the effective use and maintenance of facilities; and 3) proper training and related activities regarding the use of these guidelines will be provided. (See Appendix A for details).

2-2-4-8 Implementation Schedule

Project implementation, which is within the framework of Japan's Grant Aid System, will become effective after the demarcation of work and other necessary procedures have been completed by the Government of Japan and the Government of Vietnam. The Project will commence following the signing of the E/N by the two countries. After the signing, the Project will be implemented in 4 steps for each stage: (1) Detailed Design, (2) Tender, (3) Procurement of materials, and (4) Construction. Approximately 12 months are required for each stage of the Project.

(1) Detailed Design

After the approval of the consultant agreement, the consultants will prepare the tender documents based on the Basic Design, consulting with the representatives of MOET to decide on and set up the various specifications including the construction budget and management system. The specific demarcations of the work between the Vietnam and Japan sides must be cleared at the beginning of the detailed design process and according to the policies of the E/N and Japan's grant aid system. Once these items are completed, work on the Detailed Design will commence. The Detailed Design will take approximately three months per stage of the Project.

(2) Tender

The tender period includes announcement, qualification examination of companies, opening of the tender, tender results evaluation and the construction contract. The methods for determining the type of contract between the client (MOET) and the construction company, and the tender shall be decided in advance of the tender period through sufficient consultation. Approximately three months are required to complete all of the tender processes.

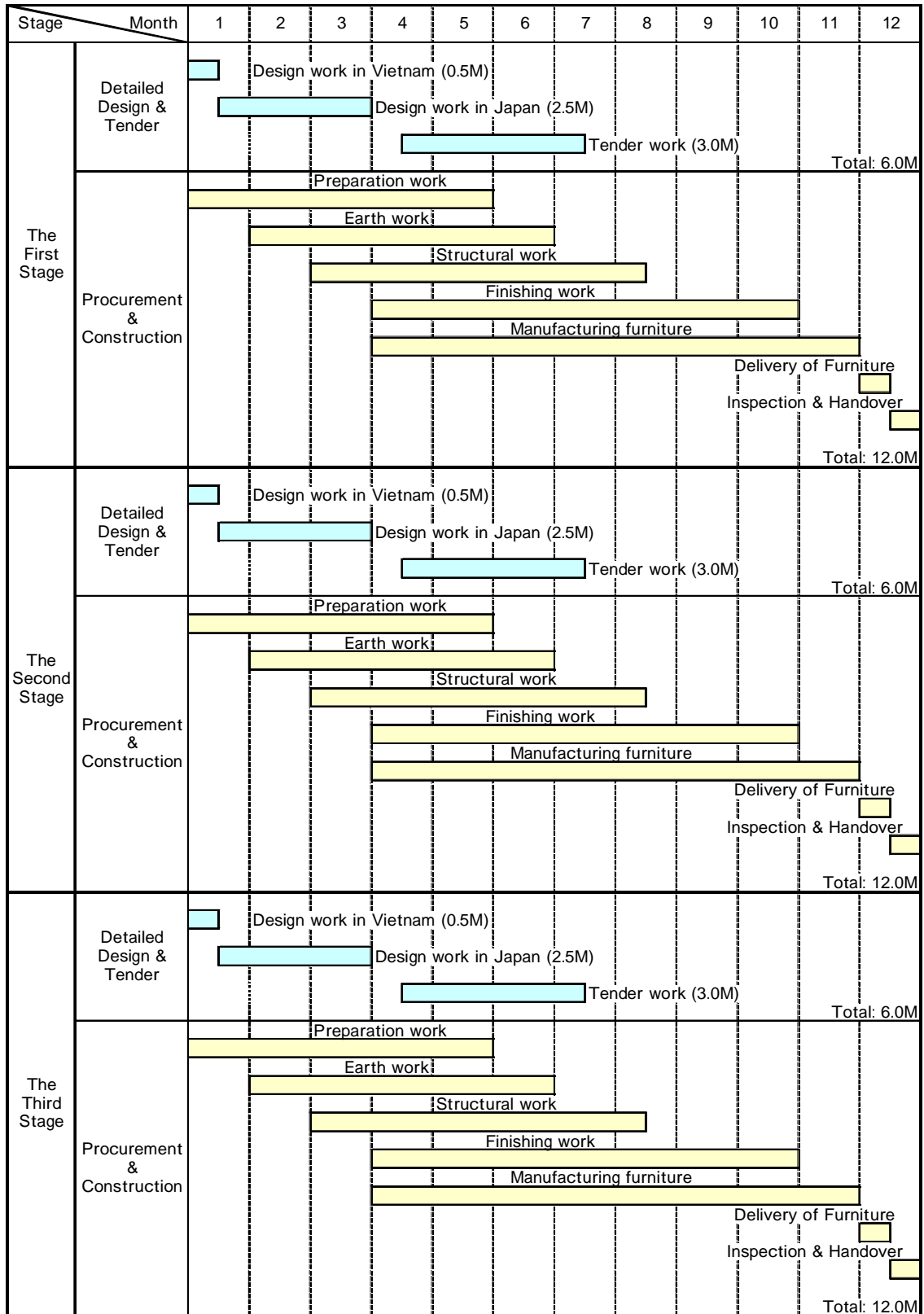
(3) Procurement of Construction Materials and Equipment

Following the signing of the construction contract, preparation of shop drawings should be started immediately. Procurement of materials and equipment will start after the approval of the shop drawings. The delivery of the first equipment can be expected to arrive at the site about one month after the conclusion of the contract.

(4) Construction

After the signing of the contract, the Project sites shall be divided into groups and the determination of when each group will start its building construction and in what order shall be decided. Since two story buildings need a longer construction period, they should be included in the first group as much as possible. It takes about one month of preparation time after signing the contract before excavation of the ground can start. After completion of the building construction it will take one month for delivery of furniture and equipment to transfer to the sites and for the final inspection to take place by the consultant. It will take 12 months for each construction stage. The Project schedule is shown in Table 2-13.

Table 2-13 The Project Schedule



2-3 Obligations of Recipient Country

The purpose of Japanese Grant Aid is to provide financial assistance for countries making their own self-effort for development. As a basic principle, the Government of Japan requests recipient countries to share obligations of the Project, and this principle applies equally to any recipient country in the world.

Once the Government of Japan decides to provide Grant Aid for the implementation of the Project, the Government of Vietnam will undertake the following obligations:

- (1) Provide the Japanese side with information and data pertinent to the Project:
- (2) Prepare necessary land for the Project and obtain rights for MOET to construct the Project facilities:
- (3) Secure the land; remove existing objects and trees, make access roads, clear or reclaim land prior to the start of construction.
 - 1) Retaining wall construction
 - TQ-10s Xuan Quang (Sub-School)
 - 2) Large scale cutting, filling and reclamation of the land
 - BG-5 My Ha
 - BG-15 Kien Lao
 - BG-18 Dong Viet
 - TQ-2 Vinh Loc
 - TQ-6 Phan Thiet
 - TQ-7 Thai Binh
 - 3) Demolition of all concerned existing buildings in the proposed construction site
 - BG-1 An Chau
 - BG-2s Phi Dien(Sub-School)
 - BG-5 My Ha
 - BG-8s Dong Lo2(Sub-School)
 - BG-11 Ngoc Thien1
 - BG-13 Yen Son
 - BG-15 Kien Lao
 - BG-16 Hop Thinh
 - TN-2 Trung Hoi
 - TN-3 Nam Hoa1
 - TN-10 Bao Cuong
 - TN-17 Binh Thanh

TQ-2 Vinh Loc
TQ-5s Thuong Am (Sub-School)
TQ-6 Phan Thiet
TQ-10s Xuan Quang (Sub-School)
TQ-14 Phuc Thinh
TQ-17s Dang Chau (Sub-School)
PT-4T ieu Son
PT-10 Dong Xuan
PT-20 Ha Thach

4) Demolition of existing building foundations, concrete structures, pavement, other structures etc.

BG-11 Ngoc Thien1 (Removal of fences)
BG-17 Thanh Lam

5) Demolition and removal of existing trees, school gardens etc. which affect the construction works

BG-5 My Ha
BG-11 Ngoc Thien
BG-13 Yen Son
BG-18 Dong Viet
TN-3 Nam Hoa1
TN-4 Thi Tran Du
TQ-7 Thai Binh
PT-6 Van Lung
PT-16 Thanh Van
PT-20 Ha Thach

6) Others (Construction of access road etc.)

BG-5 My Ha(Removal of the road)
BG-8 Dong Lo2 (Construction of access road)
BG-8s Dong Lo2 (Sub-School)(Removal of electric pole)
TQ-17s Dang Chau (Sub-School) (Expansion of the road)

- (4) To connect the electric power up to integrating wattmeter, and to provide and connect the water source to the toilet cistern tank before completion of construction. And to provide of all necessary electric water pumps to the sites.
- (5) Undertake landscaping, construction of boundary walls, and other incidental outdoor work, if necessary

- (6) Secure teachers and administrative staff members; as well as a sufficient amount of funds necessary for operating and maintaining completed Project facilities; including equipment that are to be procured by the grant aid.
- (7) Bear commissions and/or fees for banking services based on the banking arrangement.
- (8) Ensure the expeditious unloading and prompt inland transportation of Project materials and equipment purchased by grant aid. Also, ensure all grant aid materials are exempt from taxes, customs clearance fees at the port of disembarkation.
- (9) Exempt all Japanese companies engaged in the Project from customs duties, domestic taxes, and other levies in Vietnam that may be imposed on products and services which come under the verified contracts. Especially, to allocate necessary budget for Value Added Taxes in advance to pay the equivalent amount for all Japanese juridical and physical nationals engaged in the Project.
- (10) Provide every convenience to all Japanese nationals engaged in the Project when b they enter into or stay in Vietnam to perform work which comes under the verified contracts.
- (11) Give permission, approval, and other authorization that may be necessary for the b project implementation.
- (12) Adequately and effectively use and maintain the Project facilities under the responsibility of MOET.
- (13) Bear all costs necessary for the implementation of the Project, including costs for land preparation, access road construction, infrastructure line connection, and other incidental work, but excluding those cost that are to be borne by the Japanese side.
- (14) Provide expeditious assistance, decisions, and judgment whenever requested by consultants for smooth project implementation.

2-4 Project Operation and Maintenance Plan

(1) Personnel Plan

In Vietnam, there is a system for assigning one teacher to one class. In the case of double-shift, different teachers are assigned each for the morning classes and the afternoon classes. Thus, even if new classrooms are constructed by the Project to conduct the full day schooling, there will be no need to assign new teachers. For this reason, it is considered that measures for assigning teachers to new classrooms would not be required.

(2) Maintenance Plan

School facilities' operation and maintenance activities at each school are conducted by the school management committee that are organized by the principal, vice principal, representative of teachers, parents of students and area residents under the supervision of BOET. As for actual repair and maintenance work, simple work, such as gardening, repair of desks and chairs and painting walls, is carried out either by volunteers recruited by the school management committee or outside contractors. Relatively large-scale work, such as replacement of roof trusses and floor replacement, is financed by the school-facility operation maintenance funds that are reserved by the People's Committee. The reserved funds are originally collected as school operation and maintenance fees from the parents of students. The amount of the fee is in the range of 30,000 to 80,000 VND per student in a year (approximately 240 to 650yen). As for the cleaning of school facilities, students and teachers conduct cleaning work at many Project schools. However, in urban areas there are some schools that farm out cleaning work to outside contractors.

As mentioned above, school facility operation and maintenance systems are already established at most Project schools. Thus, there will be no need to establish a new organization for facility operation and maintenance after completing Project facilities. However, through site surveys, the Study Team learned that the existing facilities at Project schools were not necessarily operated and maintained adequately and that the operation and maintenance methods were not necessarily suitable. For this reason, it is recommended to introduce software components for the purpose of raising the awareness of the members of the school management committee and conducting appropriate school facility maintenance work by teaching suitable methods.

2-5 Project Cost Estimation

2-5-1 Project Cost

The total amount of the project cost needed for implementing the Grant Aid Project is approximately 1.367 Billion Japanese Yen. According to the conditions of the cost estimate shown below in section (3), the previously mentioned details of expenses based on the respective shares borne by Japan and Vietnam are calculated as below. However, the following estimated project cost may not be considered the final Grant Aid project cost as that is limited based on the Exchange of Notes. The cost estimate is provisional and will be further examined by the Government of Japan for final approval of the Grant.

(1) Expense borne by the Japanese side

Approx. 1,360.21 Million Japanese Yen

Bac Giang Province :16 Schools, 158 Classrooms (Total Floor Area 8,804.89 m²)

Item		Rough Project Expenses (Million Japanese Yen)	
Facility	Classroom Building	302.32	433.91
	Toilet Building	96.13	
	Furniture	35.46	
Detail Design / Const. Supervision / Technical Training		74.58	

Rough Project Expenses (Subtotal) Approx. 508.49 M.J.Y.

Thai Nguyen Province: 14 Schools, 106 Classrooms (Total Floor Area 6,269.06 m²)

Item		Rough Project Expenses (Million Japanese Yen)	
Facility	Classroom Building	219.99	320.87
	Toilet Building	74.01	
	Furniture	26.87	
Detail Design / Const. Supervision / Technical Training		61.67	

Rough Project Expenses (Subtotal) Approx. 382.54 M.J.Y.

Tuyen Quang Province: 9 Schools, 54 Classrooms (Total Floor Area 3,037.30 m²)

Item		Rough Project Expenses (Million Japanese Yen)	
Facility	Classroom Building	112.21	168.95
	Toilet Building	43.72	
	Furniture	13.02	
Detail Design / Const. Supervision / Technical Training		24.88	

Rough Project Expenses (Subtotal) Approx. 193.83 M.J.Y.

Phu Tho Province: 9 Schools, 86 Classrooms (Total Floor Area 5,039.45 m²)

Item		Rough Project Expenses (Million Japanese Yen)	
Facility	Classroom Building	165.43	234.05
	Toilet Building	47.88	
	Furniture	20.74	
Detail Design / Const. Supervision / Technical Training		41.30	

Rough Project Expenses (Subtotal) Approx. 275.35 M.J.Y.

(2) Expense borne by the Vietnamese side:

858.9 Million VND (approx. 6.84 million Japanese yen).

Construction of shoring and retaining wall	622.0 Million VND	4.95 M.J.Y
Cutting, filling and reclamation of land	85.5 Million VND	0.68 M.J.Y.
Demolition of all concerned existing buildings in the proposed construction site	9.6 Million VND	0.08 M.J.Y
Removal of existing obstacles, such as foundations, concrete structures, pavement, and others	1.5 Million VND	0.01 M.J.Y.
Demolition and removal of existing trees	0.5 Million VND	0.01 M.J.Y
Electrical Connection Work	112.0 Million VND	0.89 M.J.Y.
Supply Water Connection Work	27.8 Million VND	0.22 M.J.Y
<u>Total</u>	<u>858.9 Million VND</u>	<u>6.84 M.J.Y.</u>

The Vietnam side works and costs calculated are shown in the list. The fiscal year in Vietnam is from January to December, and the necessary budgets will be made by the Planning and Finance Department of MOET.

(3) Condition of Cost Estimate

Period of cost estimate	September, 2002
Currency Exchange Rate	1 US\$=122.08 Japanese Yen 1 US\$=15327.57 VND 1 VND=0.00796 Japanese Yen
Period of Execution	The Project design work and construction will be implemented in three phases. The time periods for work in each phase, the detailed designs, construction and procurement, are shown in the Project Implementation Schedule.
Others	This Project shall be carried out under the system of the Grant Aid of the Japanese government.

2-5-2 Operation and Maintenance Costs

After the Project implementation, additional operation and maintenance costs would be necessary.

(1) Operating Costs

Operating costs (personnel expenses, electric fees and water fees) will be estimated as follows.

1) Personnel Expenses

As stated earlier, the additional employment would not be necessary.

2) Electric Fees, Water Fees and Sewage Disposal Costs

a) Electric Fees

There are 45 schools now being connected to electric facilities. Total number of classrooms in these schools is 394 and total numbers of principal's rooms and teaching aid rooms is 40. The electrical related equipment in this Project covers lighting systems, wall outlets and fans. The length of usage depends on climate. Average electric consumption per classroom will be estimated 723 kwh and principal's room and teaching aid room will be estimated 921 kwh each. Total consumption will be estimated 321,702 kwh and the total fees would be estimated

418,212,600 VND (approximately 3.33 million JPY). In this Project, water supply pumps will be provided by the Vietnamese side if necessary, therefore, electric fees related to water supply pump usage will be added to the above mentioned figure.

Table 2-14 Electric usage amount and fee for each province (per year)

	Classrooms		Principal's and Teaching aid rooms		Total Consumption (kwh)	Total costs	
	number	consumption (kwh)	number	consumption (kwh)		(VND)	(million JPY)
Bac Giang Province	158	114,234	7	6,447	120,681	156,885,300	1.25
Thai Nguyen Province	106	76,638	20	18,420	95,058	123,575,400	0.98
Tuyen Quang Province	44	31,812	5	4,605	36,417	47,342,100	0.38
Phu Tho Province	86	62,178	8	7,368	69,546	90,409,800	0.72
Total	394	284,862	40	36,840	321,702	418,212,600	3.33

b) Water Fees

Schools that connect to the public water supply system will have to pay additional water fees. Five schools (54 classrooms / 1,890 students) are now being connected to the public water supply system. Estimated from the amount of water used by a student and present water fee, additional fee after the Project implementation would be $1,020t \times 6,500 \text{ VND/t} = 6,630,000 \text{ VND}$ (approximately 50,000JPY).

Table 2-15 Water fee for each province (per year)

	Water Consumption (t)	Water Fee	
		(VND)	(JPY)
Bac Giang Province	0	0	0
Thai Nguyen Province	265	1,722,500	13,000
Tuyen Quang Province	320	2,080,000	17,000
Phu Tho Province	435	2,827,500	23,000
Total	1020	6,630,000	53,000

c) Sewage Disposal

There are no Project schools that will connect to the public sewage disposal system, so no additional fee for the sewage disposal cost shall be considered.

(2) Maintenance Costs

Maintenances costs can be divided into a) periodic expenses such as painting costs and b) irregular expenses such as minor maintenance (repairing of jalousie windows and doors). In general, maintenance fees are estimated at 0.6 to 1.4 % per year of the entire

construction costs. In this Project, maintenance cost is estimated as 0.6% per year, as all the Project buildings simply require easy maintenance work.

$$119,000,000,000 \text{ VND} \times 0.6\% / \text{year} =$$

$$\text{Approx. } 714,000,000 \text{ VND / year (Approx. } 5.7 \text{ million JPY)}$$

(3) Total Operation and Maintenance Costs

Operation and Maintenance Costs are estimated according to the management costs of each province with regard to MOET primary education policy for the 2002 academic year, and shown in table 2-16. After-Project maintenance cost increases are calculated to be approximately 0.2 to 2.0% a year, which is considered reasonable and reliable for future budget considerations.

Table 2-16 Operation Budget for Primary Education in each Projected Province and Estimated Increase in Operation Cost by the Project

	Budget for Primary Education in Year 2002 (Million VND)	Estimated Increase by the Project (Million VND)	Increase Ratio
Bac Giang Province	105,050 (Approx.860M.J.Y.)	407 (Approx.2.5M.J.Y.)	0.4%
Thai Nguyen Province	78,378 (Approx.640M.J.Y.)	325 (Approx.2.0M.J.Y.)	0.4%
Tuyen Quang Province	9,892 (Approx.80M.J.Y.)	200 (Approx.1.2M.J.Y.)	2.0%
Phu Tho Province	93,680 (Approx.760M.J.Y.)	203 (Approx.1.3M.J.Y.)	0.2%
Total	287,000 (Approx.2340M.J.Y.)	1,135 (Approx.7.0M.J.Y.)	0.4%

Chapter 3 Project Evaluation and Recommendations

Chapter 3 Project Evaluation and Recommendations

3-1 Effect of the Project

(1) Direct Effects

Improvement of the Study Environment

Through construction of the 404 classrooms by the Project, the existing decrepit and temporary classroom buildings, which are approximately 20% of all the classrooms, will be replaced and the Project schools will be provided with the capacity to hold a larger number of students. With the reduction of the classroom population from 107.4 students to 34.2 students per room¹, the learning environment of the classrooms will be better. The Project will also provide a principal's room and a teaching aid room for schools which do not have them. Thus, the Project schools will have a better learning and teaching environment.

Implementation of the Full-Day School Program

Because of the improvement of classroom shortages through the implementation of the Project, the schools, which are now forced to operate under a double-shift program, will be able to change their operation to a full-day school program. Therefore, the ratio² of classrooms capable of implementing the full-day school program will be increased from 31.75% to 99.2 %.

Improvement of the Sanitary Environment

The Project will provide well-equipped toilet facilities with the number and sizes based on the number of classrooms to be built. Thus, the shortage of toilet facilities as well as the general sanitary environment shall be markedly improved.

Acquiring Skills and Knowledge for Proper Facility Maintenance and Management

By introducing the Software Component, each Project school will understand the importance of the proper maintenance of facilities and acquire the basic skills and knowledge for such maintenance. Furthermore, the appropriate implementation of the maintenance activities enables sustainable use of the existing facilities as well as the

¹ Number of Students per Classroom = Total Number of Students divided by Number of Usable Classrooms

² Classroom Ratio capable for the Full-Day School Program: Total Number of Classrooms divided by Appropriate Number of Class

Project facilities, decreasing the maintenance cost in the long run.

(2) Indirect Effect

Use of the Facilities by the Community

The Project facilities will be used not only for primary education but also for social educational activities such as adult education or literacy education, as well as for non-educational purposes such as community activities. In this ways, the Project facilities will greatly contribute to the surrounding communities.

3-2 Recommendations

In conclusion, the Project is highly expected to bring many positive benefits as mentioned as well as to contribute to the improvement of Basic Human Needs of the society; thus, the implementation of the Project through the Japanese grant aid scheme is deemed worthy and meaningful. If the items mentioned below are improved, this Project will be implemented more smoothly, and thus more effectively contribute to improving the general educational environment.

Approach to the Full-Day school Program

The current level of student attendance in the primary schools is quite high in Vietnam. However, after the adoption of the full-day school program, which will take a large amount of the students' time, make many students in the farming villages and lower income families may encounter difficulty in school attendance. This causes serious concern as it might widen education-opportunity gap between the social classes. Thus, in order to prevent such problems from happening, the Vietnamese side is well advised to effectively eliminate any possible negative effect which the implementation of the full-day school program might cause.

In order to smoothly introduce and fully establish the acceptance of the new full-day school system in the schools, it is necessary to secure a sufficient number of teachers and to obtain the understanding from students, parents and the community about the purpose and goals of the full-day school program system as well as working on the facility shortage problem. To increase the number of subject teachers for the new subjects, the Vietnamese government needs to provide the pre-service training of subject teachers for these new subjects and to support the conversion from current

teachers teaching all the subjects to subject teachers. Furthermore, at the provincial and school level, careful preparation is required such as examination of the new school operation system and conduct of the campaign for all the related people.

Implementation of Proper Maintenance Activities

Currently, school maintenance activities are not being carried out in an effective or systematic way, and also, proper preventative maintenance procedures for building facilities are not being implemented in any periodic fashion. When any problems arise, it seems that only temporary measures are taken to solve them. However, for the continuous and permanent use of both the existing and Project school facilities, it is absolutely essential that these kinds of activities be performed appropriately. In order to achieve and support such activities, the schools need to be well organized, the partnerships between the schools and their surrounding communities need to be promoted, and the awareness of all the related people needs to be raised.

Concern Regarding the School Construction Done by Vietnam

Several efforts to construct classrooms and improve classroom shortages are being made by the local people in conjunction with the People's Committees. In order for the Vietnamese side to best implement all work done for facility improvement on its own, an accurate forecast and analysis needs to be made in regards to the number of students attending school in the future. Moreover, the country of Vietnam needs to recognize and to fully acknowledge such voluntary effort by the local people and their communities as well as the close communication with Bureau of Education and Training and Department of Education and Training. In summary, the Vietnamese side need pay more attention to maintaining a high level of coordination of any and all school development projects that donors may bring, including this Project.

Appendices

1. Member List of the Study Team

Basic Design Study Team (4 August 2002 ~ 17 September 2002)

1.	Leader :	Masaaki Matsushima	Director, First Project Management Div., Grant Aid Management Dept., JICA
2.	Grant Aid Cooperation :	Tomonobu Sugisaki	Staff, Grant Aid Div., Economic Cooperation Bureau, Ministry of Foreign Affairs
3.	Planning Management :	Yuki Shibuya	Staff, First Project Management Div., Grant Aid Management Dept., JICA
4.	Chief Consultant / Architectural Design :	Akira Yokoyama	Mohri, Architect & Associates, Inc.
5.	Education Planning :	Tomoyuki Kurata	Mohri, Architect & Associates, Inc.
6.	Architectural Planning I / Operation and Maintenance Planner :	Hiroyuki Yoshizawa	Mohri, Architect & Associates, Inc.
7.	Architectural Planning II :	Yutaka Inagaki	Mohri, Architect & Associates, Inc.
8.	Procurement Planner / Cost Estimator :	Masaru Hino	Mohri, Architect & Associates, Inc.
9.	Coordinator :	Mayuri Hirata	Mohri, Architect & Associates, Inc.
10.	Procurement Planner / Cost Estimator II :	Yoshiaki Ichibagase	Mohri, Architect & Associates, Inc.

Draft Report Explanation Team (9 January 2003 ~ 18 January 2003)

1.	Leader :	Hiroshi Shirakawa	Deputy Resident Representative, JICA Vietnam Office
2.	Chief Consultant / Architectural Design :	Akira Yokoyama	Mohri, Architect & Associates, Inc.
3.	Architectural Planning I / Operation and Maintenance Planner :	Hiroyuki Yoshizawa	Mohri, Architect & Associates, Inc.
4.	Coordinator / Education Planning II :	Mayuri Hirata	Mohri, Architect & Associates, Inc.

Draft Report Explanation Team (10 August 2003 ~ 16 August 2003)

1.	Leader :	Fumio Kikuchi	Resident Representative, JICA Vietnam Office
2.	Chief Consultant / Architectural Design :	Akira Yokoyama	Mohri, Architect & Associates, Inc.
3.	Architectural Planning I / Operation and Maintenance Planner :	Yoshiaki Ichibagase	Mohri, Architect & Associates, Inc.

2. Study Schedule

Basic Design Study

Date			Official Members		a	b	c	d	e	f	g
			Chief Consultant/Architectural Planning		Education Planning	Architectural Planning I / Operation and Maintenance Planner	Architectural Planning II	Procurement Planner / Cost Estimator	Coordinator	Procurement Planner / Cost Estimator	
			Akira Yokoyama		Tomoyuki Kurata	Hiroyuki Yoshizawa	Yutaka Inagaki	Masaru Hino	Mayuri Hirata	Yoshiaki Ichibagase	
			11 days		45 days	30 days	45 days	30 days	35 days	30 days	11 days
1	3-Aug Sat	Tokyo Hanoi									
	4-Aug Sun	-	Tokyo Hanoi	Tokyo Hanoi	Tokyo Hanoi					Tokyo Hanoi	
2	5-Aug Mon	Embassy of Japan · JICA Office Discussion with MOET (Ministry of Education and Training)								Accompany a Preparation of Workshop	
3	6-Aug Tue	Discussion with MOET Discussion with DFID · World Bank								ditto	
4	7-Aug Wed	Courtesy Call on Bac Giang Province DOET (Department of Education and Training) Site Inspection: Thai Dao Primary School (Grant Assistance to Grassroots Projects) Site Inspection : BG-9 Hong Thai (Proposed school for the Project)								Preparation of Workshop	
5	8-Aug Thu	Discussion with MOET on Minutes of Discussion Discussion with NORAD · Oxfam				Accompany a Meeting on Soil Investigation				Accompany a	
6	9-Aug Fri	Courtesy Call on Thai Nguyen DOET Site Inspection:TN-3 Nam Hoa 1 (Proposed school for the Project) Site Inspection: TN-6 Than Huong (Proposed school for the Project)								ditto	
7	10-Aug Sat	Courtesy Call on DOET Bac Can Province Site Inspection: Vi Houng (Phase I Project school) Site Inspection: Xuat Hua (Phase I Project school)								ditto	
8	11-Aug Sun	Internal Meeting / Data Analysis								ditto	
9	12-Aug Mon	Signing on Minutes of Discussions Report to JICA Office						Tokyo Hanoi		Accompany a Preparation of Workshop	
10	13-Aug Tue	Hanoi Tokyo	Phu Tho, Tuyen Quang DOET	Accompany a	Architectural Survey	Architectural Survey	Cost Estimation Survey	Arrangement of vehicles, personnel Preparation of documents			
11	14-Aug Wed	Meeting on Site Survey									
12	15-Aug Thu	Unification Survey BG-14 Dai Lam BG-14S Dai Lam		Workshop TN-9 Doi Can	Unification Survey BG-14 Dai Lam BG-14S Dai Lam		Unification Survey BG-14 Dai Lam BG-14S Dai Lam	Unification Survey BG-14 Dai Lam BG-14S Dai Lam	Accompany b		
13	16-Aug Fri	Discussion with Phu ThoDOET To Tuyen Quang		Discussion with Phu ThoDOET To Tuyen Quang	Phu Tho DOET PT-4 Tieu Son		Thai Nguyen DOET TN-12 Linh Son	Site Survey BG-1 An Chau BG-1S An Chau	Phu ThoDOET To Tuyen Quang		
14	17-Aug Sat	Site Survey TQ-6 Phan Thiet		Workshop TQ-6 Phan Thiet	Site Survey PT-9 Am Thuong PT-9S Am Thuong		Site Survey TN-5 Phu Lac TN-5S Phu Lac	Site Survey BG-2 Phi Dien BG-2S Phi Dien	Accompany b		
15	18-Aug Sun	Data Analysis									
16	19-Aug Mon	Site Survey TQ-15 Tan Yen TQ-3 Bac Muc		Workshop TQ-15 Tan Yen TQ-3 Bac Muc	Site Survey PT-18 Yen Luat PT-16 Thanh Van		Site Survey TN-11 Yen Trach 1 TN-18 Yen Ninh	Site Survey BG-20 Yen Dinh BG-15 Kien Lao	ditto		
17	20-Aug Tue	Site Survey TQ-11 Yen Huong TQ-9 Y La		Workshop TQ-11 Yen Huong TQ-9 Y La	Site Survey PT-2 T.T. Song Thao PT-13 Sai Nga		Site Survey TN-10 Bao Cuong TN-2 Trung Hoi	Site Survey BG-3 Dong Hung 2 BG-17 Thanh Lam	ditto		
18	21-Aug Wed	Site Survey PT-1 Hy Cuong PT-5 Det		Workshop PT-1 Hy Cuong PT-5 Det	Site Survey PT-12 Phu Loc PT-10 Dong Xuan		Site Survey TN-17 Binh Thanh	Site Survey BG-7 Tri Yen BG-13 Yen Son	ditto		
19	22-Aug Thu	Site Survey PT-17 Ngoc Quan		Workshop PT-17 Ngoc Quan	Site Survey TQ-16 Hung Thanh TQ-13 Song Lo 1		Site Survey TN-3 Nam Hoa 1 TN-13 Van Yen	Site Survey BG-12 Hong Ky BG-4 Cau Go	ditto		
20	23-Aug Fri	Education related survey				Site Survey TQ-5 Thuong Am TQ-5S Thuong Am		Site Survey TN-20 Lau Thuong TN-4 Thi Tran Du	Site Survey BG-18 Dong Viet BG-19 Ninh Son	ditto	
21	24-Aug Sat	Internal Meeting (Hanoi)									Tokyo Hanoi
22	25-Aug Sun	Internal Meeting / Data Analysis									

2. Study Schedule

Date			Official Members	a	b	c	d	e	f	g	
				Chief Consultant/Architectural Planning	Education Planning	Architectural Planning I / Operation and Maintenance Planner	Architectural Planning II	Procurement Planner / Cost Estimator	Coordinator	Procurement Planner / Cost Estimator	
				Akira Yokoyama	Tomoyuki Kurata	Hiroyuki Yoshizawa	Yutaka Inagaki	Masaru Hino	Mayuri Hirata	Yoshiaki Ichibagase	
			11 days	45 days	30 days	45 days	30 days	35 days	30 days	11 days	
23	26-Aug	Mon		Site Survey TN-1 La Hien TN-16 Hong Tien	Workshop TN-1 La Hien TN-16 Hong Tien	Site Survey TQ-17 Dang Chau TQ-8 Ky Lam TQ-8S Ky Lam	Site Survey PT-11 Trung Nghia PT-19 Xuan Loc	Site Survey BG-11 Ngoc Thien 1 BG-16 Hop Thinh	Accompany b	Cost Estimation Survey (Hanoi)	
24	27-Aug	Tue		Site Survey BG-10 Nam Hong BG-9 Hong Thai	Workshop BG-10 Nam Hong BG-9 Hong Thai	Site Survey TQ-12 Nang Kha TQ-1 Thi Tran	Site Survey PT-20 Ha Thach PT-20S Ha Thach PT-14 Thanh Mieu	Site Survey BG-5 My Ha BG-6 Viet Lap	ditto	ditto	
25	28-Aug	Wed		Site Survey BG-8 Dong Lo 2 BG-8S Dong Lo 2	Workshop BG-8 Dong Lo 2 BG-8S Dong Lo 2	Site Survey TQ-10 Xuan Quang TQ-10S Xuan Quang	Site Survey PT-7 T.T. Yen Lap PT-8 Co Tiet	Site Survey TN-19 Ha Chau TN-7 Thanh Ninh	ditto	Cost Estimation Survey (Bac Giang)	
26	29-Aug	Thu		Site Survey TN-16S Hong Tien TN-9 Doi Can	TTC Bac Giang	Site Survey TQ-2 Vinh Loc TQ-14 Phuc Thinh	Site Survey PT-15 Vo Mieu 2 PT-15S Vo Mieu 2	Site Survey TN-8 Ba Xuyen TN-15 Luong Son	ditto	Cost Estimation Survey (Thai Nguyen)	
27	30-Aug	Fri		Education related survey		Site Survey TQ-7 Thai Binh TQ-4 An Tuong	Site Survey PT-3 Phuong Trung PT-6 Van Lung	Site Survey TN-6 Tan Huong TN-14 Tan Phu	Accompany b	Cost Estimation Survey (Tuyen Quang / Phu Tho)	
28	31-Aug	Sat		Internal Meeting (Hanoi)							
29	1-Sep	Sun		Internal Meeting / Data Analysis							
30	2-Sep	Mon		Architectural Survey	Hanoi Tokyo	Architectural Survey	Architectural Survey	Cost Estimation Survey	Hanoi Tokyo	Accompany e	
31	3-Sep	Tue		ditto		ditto	ditto	ditto		Hanoi Tokyo	
32	4-Sep	Wed		ditto		ditto	ditto	ditto			
33	5-Sep	Thu		ditto		ditto	ditto	ditto			
34	6-Sep	Fri		ditto		Site Survey TN-17S Binh Thanh	Accompany c	ditto			
35	7-Sep	Sat		Architectural Survey		Architectural Survey	Architectural Survey	Cost Estimation Survey			
36	8-Sep	Sun		Internal Meeting			Internal Meeting				
37	9-Sep	Mon		Architectural Survey		Architectural Survey	Data Analysis	Cost Estimation Survey			
38	10-Sep	Tue		Site Inspection of Primary Schools in Hanoi (WB, National Standard)		Architectural Survey	Accompany a	Hanoi Toyo	ditto		
39	11-Sep	Wed		Architectural Survey		Architectural Survey		ditto			
40	12-Sep	Thu		MOET		ditto		ditto			
41	13-Sep	Fri		MOET		Site Survey TQ-18 Son Nam		Soil Investigation			
42	14-Sep	Sat		Supplementary Study		Supplementary Study		ditto			
43	15-Sep	Sun		Internal Meeting		Internal Meeting		Hanoi Tokyo			
44	16-Sep	Mon		Report		Report					
45	17-Sep	Tue		Hanoi Tokyo		Hanoi Tokyo					

Explanation on Draft Final Report 1

Date	Official Member	Chief Consultant/Architectural Planning	Architectural Planning I / Operation and Maintenance Planner	Coordinator / Education Planning II	
		Akira Yokoyama	Hiroyuki Yoshizawa	Mayuri Hirata	
		8 days	10 days	10 days	
1	9-Jan	Thu	Tokyo Hanoi		
2	10-Jan	Fri	Embassy of Japan · JICA Office Discussion with MOET		
3	11-Jan	Sat	Supplementary Study		
4	12-Jan	Sun	Internal Meeting/Data Analysis		Tokyo Hanoi
5	13-Jan	Mon	Morning : Supplementary Survey, Afternoon : Discussion with MOET		
6	14-Jan	Tue	Morning : Discussion with IRDS, Afternoon : Discussion with MOET		
7	15-Jan	Wed	Morning : Discussion with MOET, Afternoon : Internal Meeting		
8	16-Jan	Thu	Morning : Internal Meeting, Afternoon : MOET		
9	17-Jan	Fri	Report to EoJ, JICA		
10	19-Jan	Sat	Hanoi Tokyo		

Explanation on Draft Final Report 2

Date	Official Member	Chief Consultant/Architectural Planning	Architectural Planning I / Operation and Maintenance Planner
		Akira Yokoyama	Yoshiaki Ichibagase
		5 days	7 days
1	10-Aug	Sun	Tokyo Hanoi
2	11-Aug	Mon	JICA Office / Discussion with MOET
3	12-Aug	Tue	Internal Meeting / Discussion with MOET
4	13-Aug	Wed	Discussion with MOET / Embassy of Japan
5	14-Aug	Thu	Data Analysis / Discussion with MOET
6	15-Aug	Fri	Internal Meeting / Minutes Discussion
7	16-Aug	Sat	Hanoi Tokyo

3 . List of Parties Concerned in the Recipient Country

Ministry of Education and Training (MOET)

Dr. Le Vu Hung	Vice Minister
Ms. Dang Huynh Mai	Vice Minister
Mr. Trinh Quoc Thai	Vice Director of Primary Education Dept.
Mr. Dao Duc Chung	Vice Director of Planning and Finance Dept.
Dr. Bui Cong Tho	Vice Director of International Relations Dept.
Mr. Tran Ba Viet Dzung	Director General of International Relations Dept.
Mr. Le Duc Long	Senior Expert of International Relations Dept.
Ms. Nguyen Hong Hanh	Expert of Primary Education Dept.
Mr. Cong Van Le	Expert of Planning and Finance Dept
Ms. Nguyen Thuy Loan	Expert of International Relations Dept.
Ms. Tran Lan Anh	Expert of International Relations Dept.
Dr. Tran Thanh Binh	Director of Institute for Research and Design of Schools (IRDS)
Dr. Pham Chi Dai	Vice Director of IRDS
Mr. Trinh Quang Kien	Architect of IRDS
Mr. Quach Xuan Cau	Former Expert of IRDS

Ministry of Planning and Investment

Dr. Duong Duc Ung	Director General of Foreign Economic Relations Dept.
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Bac Giang Province, Department of Education and Training (DOET)

Mr. Nguyen Nhung	Director of DOET
Mr. Nguyen Dao	Director of Planning and Finance Div.
Mr. Tres Vas Thang	Director of Primary Education Div.
Mr. Vu Dang Hung	Vice Director of Primary Education Div.

Thai Nguyen Province, Department of Education and Training (DOET)

Ms. Long Thi Minh Hoa	Vice Director of DOET
Mr. Pham Ngoc Tuyen	Head of Finance and Planning Div.
Mr. Nguyen Van Boi	Expert of Primary Education Div.
Mr. Hong Van Ta	Expert of Construction Div.

Tuyen Quang Province, Department of Education and Training (DOET)

Mr. Nguyen The An	Director of DOET
Mr. Ngo Ba Nhung	Head of Planning and Finance Div.
Mr. Tran Ngoc Rinh	Expert of Planning and Finance Div.
Ms. Le Phuong Lien	Expert of Primary Education Div.

Phu Tho Province, Department of Education and Training (DOET)

Mr. Nguyen Van Lien	Vice Director of DOET
Mr. Ha Van Sy	Head of Primary Education Div.
Mr. Nguyen Van Sac	Head of Primary Education Div.
Ms. Chu Shien	Deputy Head of Primary Education Div.
Mr. Pham Hung Thao	Deputy Head of Planning and Finance Div.
Mr. Phung Thi Hoang	Official of Education Div.

Bac Kan Province, Department of Education and Training (DOET)

Mr. Nguyen Van Ban	Director of DOET
Mr. Nguyen Hoang Thap	Head of Planning and Finance Div.
Mr. Ha Ly Hung	Head of Universal Education Div.
Mr. Hua Minh Thong	Head of the Board for the Infrastructure Construction Projects
Ms. Nguyen Phuong Thanh	Head of Administration Div.
Mr. Ha Va Lien	Expert of Infrastructure Construction
Ms. Pham Thih Hien	Expert of Universal Education
Mr. Hua Luan Vach	Head of Education and Training Div.

The World Bank

Mr. Christopher Shaw	Lead Human Development Specialist
Ms. Vu Thanh Binh	Education Officer

Department for International Development (DfID)

Ms. Nguyen Thi Hue	Office Manager / Deputy Program Manager
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Norwegian Aid Development (NORAD)

Ms. Marit Roti Counselor (Development Cooperation)

Mr. Tran Trong Chinh Advisor (Development Cooperation)

OXFAM

Ms. Nguyen Hong Giang Senior Program Officer

Embassy of Japan in Vietnam

Mr. Kenji Miyagawa First Secretary

Mr. Satoshi Uotani Second Secretary

Mr. Takuya Takigawa Second Secretary

JICA Vietnam Office

Mr. Morimasa Kanamaru Resident Representative

Mr. Fumio Kikuchi Resident Representative

Mr. Hiroshi Shirakawa Deputy Resident Representative

Mr. Yuichi Sugano Assistant Resident Representative

Ms. Naoko Tabata Project Formulation Adviser

Ms. Dao To Cam Assistant Program Officer

Minutes of Discussions
on
The Basic Design Study on the Project for Improvement of Facilities
of Primary Schools in the Northern Mountain Region (Phase2)
in
The Socialist Republic of Vietnam

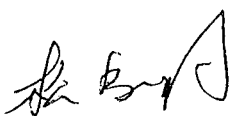
In response to a request from the Government of the Socialist Republic of Vietnam (hereinafter referred to as "Vietnam"), the Government of Japan has decided to conduct a Basic Design Study on the Project for Improvement of Facilities of Primary Schools in the Northern Mountain Region (Phase2) (hereinafter referred to as "the Project"), and entrusted the study to Japan International Cooperation Agency (JICA).

JICA sent to Vietnam the Basic Design Study Mission (hereinafter referred to as "the Mission") headed by Mr. Masaaki Matsushima, Director, First Project Management Division, Grant Aid Management Department, JICA, and is scheduled to stay in the country from 4 August to 17 September 2002.

The Mission held a series of discussions on the Project with the officials concerned with the Ministry of Education and Training. The discussions were followed up with a field survey of the study areas.

In the course of discussions and field survey, both parties confirmed the main items described on the attached sheets. The Mission will proceed to further work and prepare the Basic Design Study Report.

Hanoi, 12 August 2002



Mr. Masaaki Matsushima
Leader
Basic Design Study Mission
Japan International Cooperation Agency



Mr. Tran Ba Viet Dzung
Director General
International Relations Department
Ministry of Education and Training
The Socialist Republic of Vietnam

With the witness of



Dr. Duong Duc Ung
Director General
Foreign Economic Relations Department
Ministry of Planning and Investment

ATTACHMENT

1. Objective of the Project

The objective of the Project is to improve the educational environment of basic schools in 4 northern provinces (Bac Giang, Thai Nguyen, Tuyen Quang, Phu Tho) through reconstruction and expansion of school buildings and provision of educational equipment.

2. Project Areas

The Project areas are Bac Giang, Thai Nguyen, Tuyen Quang and Phu Tho provinces.

3. Responsible and Implementing Organization

The Ministry of Education and Training will take overall responsibility of the project. The implementing organizations are the International Relations Department, Planning and Finance Department and Primary Education Department. The PMU (Project Management Unit), of the Support Program for Primary Education Development will act as the coordinator.

4. Items requested by the Government of Vietnam

After a series of discussions with the Mission, the Vietnamese side requested the items described in ANNEX-1, ANNEX-2 and ANNEX-3. JICA will assess the appropriateness of the request and will recommend to the Government of Japan for approval.

5. Japan's Grant Aid Scheme

- 5-1. The Vietnamese side understood the Japan's Grant Aid Scheme explained by the Mission, as described in Annex-5.
- 5-2. The Vietnamese side will take the necessary measures, described in Annex-6 for the smooth implementation of the Project on condition that the Japan's grant aid is extended to the Project.

6. Schedule of the Study

- 6-1. The consultant mission will proceed to further studies in Vietnam until 17 September 2002.
- 6-2. JICA will prepare a Draft Report in English and dispatch a mission to explain the outline of the Basic Design approximately in and around December 2002.
- 6-3. Based on the discussion on the draft report with Vietnamese side, JICA will



complete the final report and send it to the Government of Vietnam approximately by the end of March 2003.

7. Other Relevant Items

7-1. Number of schools and classrooms

The Vietnamese side understood that the total number of requested schools and classrooms for the implementation of the Project would not be fully covered by the project according to the assessment of each school. Both sides agreed that the field survey of the candidate sub schools is conducted in only one sub school for each commune.

7-2. Selection criteria of the Project sites

Both sides agreed the Project sites were to be examined according to the selection criteria as listed in Annex-4.

7-3. Land for the Project

The Japanese side requested the Vietnamese side to submit the certificate to guarantee the usage of the land for each project site by the end of November 2002, and the Vietnamese side agreed on it.

7-4. Demolishing work and temporary classrooms

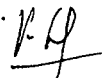
The Vietnamese side agreed to demolish the existing facilities and prepare temporary classrooms during the period of construction in case of reconstruction.

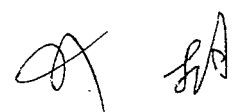
7-5. Soil boring Test

Both sides agreed that the Vietnamese side provides the soil boring test reports on the sites where defined as necessary. The sites to be tested are decided by the Japanese side, and will be submitted in the list through official channel by the middle of November 2002. The Vietnamese side agreed to submit the test reports by the end of January 2003.

7-6. Operation and maintenance

The Vietnamese side agreed to allocate necessary budget for teaching and administrative staff members for the proper and effective operation and maintenance of facilities and equipment covered by the Project.





7-7. Official appraisal and approval

The Vietnamese side will secure the official appraisal and approval by the Government of Vietnam required for the implementation of the Project.

7-8. Waste Treatment facilities

The Vietnamese side requested to add waste treatment facilities to the list of major components requested for the projects (ANNEX-2). Both sides agreed that the provision of waste treatment facilities must be considered in the perspective of necessity, efficiency and the cost in the course of the field study.

7-9. New Curriculum

The Annex-3 (List of Requested Educational Equipment for Each School) is based on the existing curriculum. Since the Vietnamese side is now preparing the new curriculum for the coming school year, the Vietnamese side agreed to provide the revised list of the requested educational equipment to the Japanese consultant by 13 September 2002.

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Annex-1 List of Requested Schools

Bac Giang Province (20 main schools and 4 sub schools)

Name of School	School No.	District	Commune
1 An Chau	BG-1	Son Dong	An Chau
2 An Chau (Sub school)	BG-1s	ditto	ditto
3 Phi Dien	BG-2	Luc Ngam	Phi Dien
4 Phi Dien (Sub school)	BG-2s	ditto	ditto
5 Dong Hung 2	BG-3	Luc Nam	Dong Hung
6 Cau Go	BG-4	Yen The	Cau Go Subtown
7 My Ha	BG-5	Lang Giang	My Ha
8 Viet Lap	BG-6	Tan Yen	Viet Lap
9 Tri Yen	BG-7	Yen Dung	Tri Yen
10 Dong Lo 2	BG-8	Hiep Hoa	Dong Lo
11 Dong Lo 2 (Sub school)	BG-8s	ditto	ditto
12 Hong Thai	BG-9	Viet Yen	Hong Thai
13 Nam Hong	BG-10	TX Bac Giang	Tho Xuong
14 Ngoc Thien 1	BG-11	Tan Yen	Ngoc Thien
15 Hong Ky	BG-12	Yen The	Hong Ky
16 Yen Son	BG-13	Luc Nam	Yen Son
17 Dai Lam	BG-14	Lang Giang	Dai Lam
18 Dai Lam (Sub school)	BG-14s	ditto	ditto
19 Kien Lao	BG-15	Luc Nam	Kien Luo
20 Hop Thinh	BG-16	Hiep Hoa	Hop Thinh
21 Thanh Lam	BG-17	Luc Nam	Thanh Lam
22 Dong Viet	BG-18	Yen Dung	Dong Viet
23 Ninh Son	BG-19	Viet Yen	Ninh Son
24 Yen Dinh	BG-20	Son Dong	Yen Dinh

Thai Nguyen Province (20 main schools and 3 sub schools)

Name of School	School No.	District	Commune
1 La Hien	TN-1	Vo Nhai	La Hien
2 Trung Hoi	TN-2	Dinh Hoa	Trung Hoi
3 Nam Hoa 1	TN-3	Dong Hy	Nam Hoa
4 Thi Tran Du	TN-4	Phu Luong	Du subtown
5 Phu Lac	TN-5	Dai Tu	Phu Lac
6 Phu Lac (Sub school)	TN-5s	ditto	ditto
7 Tan Huong	TN-6	Pho Yen	Tan Huong
8 Thanh Ninh	TN-7	Phu Binh	Thanh Ninh
9 Mo Che	TN-8	S. Cong town	Ma Che ward
10 Doi Can	TN-9	T. Nguyen city	Hoang V. Tha ward
11 Bao Cuong	TN-10	Dinh Hoa	Bao Cuong
12 Yen Trach 1	TN-11	Phu Luong	Yen Trach
13 Linh Son	TN-12	Dong Hy	Linh Son
14 Van Yen	TN-13	Dai Tu	Van Yen
15 Tan Phu	TN-14	Pho Yen	Tan Phu
16 Luong Son	TN-15	T. Nguyen city	Luong Son
17 Hong Tien	TN-16	Pho Yen	Hong Tien
18 Hong Tien (Sub school)	TN-16s	ditto	ditto
19 Binh Thanh	TN-17	Dinh Hoa	Binh Thanh
20 Binh Thanh (Sub school)	TN-17s	ditto	ditto
21 Yen Ninh	TN-18	Phu Luong	Yen Ninh
22 Duong Thanh	TN-19	Phu Binh	Duong Thanh
23 Lau Thuong	TN-20	Vo Nhai	Lau Thuong

Tuyen Quang Province (17 main schools and 3 sub schools)

Name of School	School No.	District	Commune
1 Thi Tran	TQ-1	Na Hang	Na Hang subtown
2 Vinh Loc	TQ-2	Chiem Hoa	Chiem Hoa subtown
3 Bac Muc	TQ-3	Ham Yen	Tan Yen subtown
4 An Tuong	TQ-4	Yen Son	An Tuong
5 Thuong Am	TQ-5	Son Duong	Thuong An
6 Thuong Am (Sub school)	TQ-5s	ditto	ditto
7 Phan Thiet	TQ-6	T. Quang town	Phan Thiet
8 Thai Binh	TQ-7	Yen Son	Thai Binh
9 Ky Lam	TQ-8	Son Duong	Son Duong subtown
10 Ky Lam (Sub school)	TQ-8s	ditto	ditto
11 Y La	TQ-9	T. Quang town	Y. La
12 Xuan Quang	TQ-10	Chiem Hoa	Xuan Quang
13 Xuan Quang (Sub school)	TQ-10s	ditto	ditto
14 Yen Huong	TQ-11	Ham Yen	Yen Phu
15 Nang Kha	TQ-12	Na Hang	Nan Kha
16 Song Lo 1	TQ-13	Yen Son	An Tuong
17 Phuc Thinh	TQ-14	Chiem Hoa	Phuc Thinh
18 Tan Yen	TQ-15	Ham Yen	Tan Yen subtown
19 Hung Thanh	TQ-16	T. Quang town	Hung Tanh
20 Dang Chau	TQ-17	Son Duong	Dang Chau

Phu Tho Province (20 main schools and 3 sub schools)

Name of School	School No.	District	Commune
1 Hy Cuong	PT-1	Lam Thao	Hy Cuang
2 T.T. Song Thao	PT-2	Song Thao	Song Thao Subtown
3 Dich Qua	PT-3	Thanh Son	Van Long
4 Tieu Son	PT-4	Doan Hung	Thanh Mieu
5 Det	PT-5	Viet Tri City	Nong Trang
6 Van Lung	PT-6	Phu Tho town	Van Long
7 T.T. Yen Lap	PT-7	Yen Lap	Yen Lap Subtown
8 Co Tiet	PT-8	Tam Nong	Co Tiet
9 Am Thuong	PT-9	Ha Hoa	Ha Hoa Subtown
10 Am Thuong (Sub school)	PT-9s	ditto	ditto
11 Dong Xuan	PT-10	Thanh Ba	Dong Xuan
12 Trung Nghia	PT-11	Thanh Thuy	Trung Nghia
13 Phu Loc	PT-12	Phu Ninh	Phu Loc
14 Sai Nga	PT-13	Song Thao	Sri Nga
15 Thanh Mieu	PT-14	Viet Tri City	Thanh Mieu
16 Vo Mieu 2	PT-15	Thanh Son	Vo Mieu
17 Vo Mieu 2 (Sub school)	PT-15s	ditto	ditto
18 Thanh Van	PT-16	Thanh Ba	Thanh Van
19 Ngoc Quan	PT-17	Doan Hung	Ngoc Quan
20 Yen Luat	PT-18	Ha Hoa	Yen Luot
21 Xuan Loc	PT-19	Thanh Thuy	Xuan Loc
22 Ha Thach	PT-20	Lam Thao	Ha Thach
23 Ha Thach (Sub school)	PT-20s	ditto	ditto

Annex-2 Major Components Requested for the Project

1. Facilities

- (1) Classrooms
- (2) Head master's rooms
- (3) Sanitation Facilities (Toilets and wells with pumps)
- (4) Teaching Aid rooms
- (5) Teachers' rooms (only in main schools)
- (6) Furniture

2. Equipment

Educational Materials and Equipment V. P.

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Annex 3 List of Requested Educational Equipment For Each School

NO.	TITLE
1	LITERATURE
1-1	Letter and Number(Grade 1)
1-2	Set of Letter for Teaching Syllables(Grade 1)
1-3	Set of Letter for Learning Syllables
1-4	Set of Letter for Teaching Writing
1-5	Set of Pictures for Story-telling(Grade 1)
1-6	Set of Pictures for Story-telling(Grade 2)
1-7	Set of Pictures for Story-telling(Grade 3)
1-8	Set of Pictures for Story-telling(Grade 4)
1-9	Set of Pictures for Story-telling(Grade 5)
1-10	Refernce Books for Teachers and Pupils
2	MATHEMATICS AND SCIENCE
2-1	Magnetic Board(30cm×40cm)
2-2	Magnetic Block(13mm diameter)
2-3	Scale and Weight
2-4	Clock Face
2-5	Set of Measuring Devices(Compass, Right Triangle, Protractor, Meter Stick)
2-6	Cubic Meter
2-7	Cube Pieces
2-8	Wall Thermometer
2-9	Compass
2-10	Globe(physical)
2-11	Administration Globe
2-12	Plastic Gyroscope
2-13	Arrow for Showing Wind Direction
2-14	Generator by Wind Energy
2-15	Hand-operated Generator
2-16	Electrical Model Making Set for Demonstration
2-17	Gear Model
2-18	Magnifying Glasses
3	SOCIAL STUDIES
3-1	Administrative Map of Vietnam
3-2	Set of Pictures for Teaching History(Grade 4)
3-3	Set of Pictures for Teaching History(Grade 5)
4	MUSIC
4-1	Songs Record Tape
4-2	Tape Player
4-3	Organ
5	HEALTH & PHYSICAL EDUCATION
5-1	Skipping Rope
5-2	Set of Model Teeth & Toothbrush
5-3	Soccer Balls
5-4	Air Pump

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Annex-4 Criteria for the Site Selection

Schools/sites satisfying the following criteria will be given priority:

1. Urgently needs the rehabilitation because of over aging and /or damage of the existing buildings.
2. Urgently needs the construction of additional classrooms due to overcrowding.
3. Incomplete schools which are not provided with higher grade classes and are distant from the complete schools.

Schools /sites to be selected must fulfill the following criteria:

4. The present and future demand for primary education facilities is quantitatively estimated by a set of data such as the number of school-aged children, the rates of population growth, enrollment ratio, completion rates, etc.
5. No other program or plan for new/undergoing classroom construction by the Ministry of Education and Training, local government, other donors, NGOs and so forth.
6. Access road for the movement of materials and for the construction works is properly constructed.
7. The ownership of land for construction is legally secured.
8. No constraints against construction such as occupation of out-of-law houses.
9. Topographically safe and appropriate-sized for construction.
10. No foreseen natural and environmental or social hazard.
11. Sufficient teachers, budget allocation, and necessary cooperation from concerned people for the proper operation and maintenance of the facilities are secured.

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Annex-5 The Japan's Grant Aid Scheme

The Grant Aid Program provides a recipient country with non-reimbursable funds to procure the facilities, equipment and services (engineering services and transportation of the products, etc.) for economic and social development of the country under principles in accordance with the relevant laws and regulations of Japan. Grant Aid is not supplied through the donation of materials as such.

(1) Grant Aid Procedure

1) Japan's Grant Aid Program is executed through the following procedures.

Application (Request made by a recipient country)

Study (Basic Design Study conducted by JICA)

Appraisal & Approval

(Appraisal by the Government of Japan and Approval by Cabinet)

Determination of Implementation

(The Notes exchanged between the Governments of Japan and the recipient country)

2) Firstly, the application or request for a Grant Aid project submitted by a recipient country is examined by the Government of Japan (Ministry of Foreign Affairs) to determine whether or not it is eligible for Grant Aid. If the request is deemed appropriate, the Government of Japan assigns JICA to conduct a study on the request. If necessary, JICA send a Preliminary Study Mission to the recipient country to confirm the contents of the request.

Secondly, JICA conducts the study (Basic Design Study), using Japanese consulting firms.

Thirdly, the Government of Japan appraises the project to see whether or not it is suitable for Japan's Grant Aid Programme, based on the Basic Design Study report prepared by JICA, and the results are then submitted to the Cabinet for approval.

Fourthly, the project, once approved by the Cabinet, becomes official with the Exchange of Notes signed by the Governments of Japan and the recipient country.

Finally, for the implementation of the project, JICA assists the recipient country in such matters as preparing tenders, contracts and so on.

(2) Basic Design Study

1) Contents of the Study

The aim of the Basic Design Study (hereinafter referred to as "the Study"), conducted by JICA on a requested project (hereinafter referred to as "the Project"), is to provide a basic document necessary for the appraisal of the Project by the Government of Japan. The contents of the Study are as follows:

- a) confirmation of the background, objectives and benefits of the Project and also institutional capacity of agencies concerned of the recipient country necessary for the Project's implementation;
- b) evaluation of the appropriateness of the Project to be implemented under the Grant Aid Scheme from the technical, social and economic points of view;
- c) confirmation of items agreed on by both parties concerning the basic concept of the Project;
- d) preparation of a basic design of the Project; and
- e) estimation of costs of the Project.

The contents of the original request are not necessarily approved in their initial form as the contents of the Grant Aid project. The Basic Design of the Project is confirmed considering the guidelines of Japan's Grant Aid Scheme.

The Government of Japan requests the Government of the recipient country to take whatever measures are necessary to ensure its self-reliance in the implementation of the Project. Such measures must be guaranteed even through they may fall outside of the jurisdiction of the organization in the recipient country actually implementing the Project. Therefore, the implementation of the Project is confirmed by all relevant organizations of the recipient country through the Minutes of Discussions.

2) Selection of Consultants

For the smooth implementation of the Study, JICA uses a consulting firm selected through its own procedure (competitive proposal). The selected firm participates in the Study and prepares for a report based upon the terms of reference set by JICA.

At the beginning of implementation after the Exchange of Notes, for the services of the Detailed Design and Construction Supervision of the Project, JICA recommends the same consulting firm which participated in the Study to the recipient country in order to maintain the technical consistency.

(3) Japan's Grant Aid Scheme

1) Exchange of Notes (E/N)

Japan's Grant Aid is extended in accordance with the Notes exchanged by the two Governments concerned, in which the objectives of the project, period of execution, conditions and amount of the Grant Aid, etc., are confirmed.

- 2) "The period of the Grant" means the one fiscal year which the Cabinet approves the project for. Within the fiscal year, all procedure such as exchanging of the Notes, concluding contracts with consulting firms and contractors and final payment to them must be completed.

However, in case of delays in delivery, installation or construction due to unforeseen factors such as weather, the period of the Grant Aid can be further extended for a maximum of one fiscal year at most by mutual agreement between the two Governments.

- 3) Under the Grant, in principle, Japanese products and services including transport or those of the recipient country are to be purchased.
When the two Governments deem it necessary, the Grant Aid may be used for the purchase of the products or services of a third country.

However, the prime contractors, namely consulting, contracting and procurement firms, are limited to "Japanese nationals". (The term "Japanese nationals" means persons of Japanese nationality or Japanese corporations controlled by persons of Japanese nationality.)

4) Necessity of "Verification"

The Government of the recipient country or its designated authority will conclude contracts denominated in Japanese yen with Japanese nationals. Those contracts shall be verified by the Government of Japan. This "Verification" is deemed necessary to secure accountability to Japanese taxpayers.

5) Undertakings required to the Government of the recipient country

- a) to secure land necessary for the sites of the Project and to clear, level and reclaim the land prior to commencement of the construction;
- b) to provide facilities for distribution of electricity, water supply and drainage and other incidental facilities in and around the sites;
- c) to ensure all expenses and prompt execution for unloading and customs clearance at ports of disembarkation in the recipient country and internal transportation therein of the products purchased under the Grant Aid;

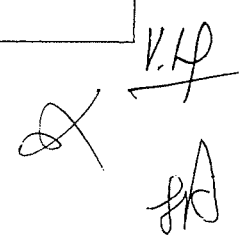
- d) to exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts;
 - e) to accord Japanese nationals whose services may be required in connection with the supply of the products and services under the verified contracts such as facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work;
- 6) "Proper Use"
The recipient country is required to operate and maintain the facilities constructed and equipment purchased under the Grant Aid properly and effectively and to assign the necessary staff for operation and maintenance as well as to bear all the expenses other than those covered by the Grant Aid.
- 7) "Re-export"
The products purchased under the Grant Aid shall not be re-exported from the recipient country.
- 8) Banking Arrangement (B/A)
 - a) The Government of the recipient country or its designated authority should open an account in the name of the Government of the recipient country in a bank in Japan (hereinafter referred to as "the Bank"). The Government of Japan will execute the Grant Aid by making payments in Japanese yen to cover the obligations incurred by the Government of the recipient country or its designated authority under the verified contracts.
 - b) The payments will be made when payment requests are presented by the Bank to the Government of Japan under an Authorization to Pay (A/P) issued by the Government of recipient country or its designated authority.
- 9) Authorization to Pay (A/P)
The Government of the recipient country should bear an advising commission of an Authorization to Pay and payment commissions to the Bank.

V.K.P

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Annex - 6 Necessary Undertakings to be Taken by Each Government

No	Items	To be covered by Grant Aid	To be covered by Recipient side
1	To secure land		●
2	To clear, level and reclaim the site when needed		●
3	To construct gates and fences in and around the site		●
4	To construct the parking lot	●	
5	To construct roads		
	1) Within the site	●	
	2) Outside the site		●
6	To construct the building	●	
7	To provide facilities for the distribution of electricity, water supply, drainage and other incidental facilities		
	1) Electricity		
	a. The distributing line to the site		●
	b. The drop wiring and internal wiring within the site	●	
	c. The main circuit breaker and transformer	●	
	2) Water Supply		
	a. The city water distribution main to the site		●
	b. The supply system within the site	●	
	3) Drainage		
	a. The city drainage main (for storm, sewer and others) to the site		●
	b. The drainage system (for toilet sewer, ordinary waste, storm drainage and others) within the site	●	
	4) Telephone System		
	a. The telephone trunk line to the main distribution frame / panel (MDF) of the building		●
	b. The MDF and the extension after the frame / panel	●	
	5) Furniture and Equipment		
a. General furniture		●	
b. Project equipment	●		
8	To bear the following commissions to a bank of Japan for the banking services based upon the B/A		
	1) Advising commission of A/P		●
	2) Payment commission		●
9	To ensure prompt unloading and customs clearance at the port of disembarkation in recipient country		
	1) Marine(Air) transportation of the products from Japan to the recipient country	●	
	2) Tax exemption and customs clearance of the products at the port of disembarkation		●
	3) Internal transportation from the port of disembarkation to the project site	●	
10	To accord Japanese nationals whose services may be required in connection with the supply of the products and the services under the verified contract such facilities as may be necessary for their entry into the recipient country and stay therein for the performance of their work		●
11	To exempt Japanese nationals from customs duties, internal taxes and other fiscal levies which may be imposed in the recipient country with respect to the supply of the products and services under the verified contracts		●
12	To maintain and use properly and effectively the facilities constructed and equipment provided under the Grant		●
13	To bear all the expenses, other than those to be borne by the Grant, necessary for construction of the facilities as well as for transportation and installation of the equipment		●


 V.H
 J.A

Minutes of Discussions
on
the Basic Design Study on the Project for Improvement of Facilities
of Primary Schools in the Northern Mountain Region (Phase 2)
in The Socialist Republic of Vietnam
(EXPLANATION ON DRAFT REPORT)

In August 2002, the Japan International Cooperation Agency (hereinafter referred to as "JICA") dispatched a Basic Design Study Team on the Project for Improvement of Facilities of Primary Schools in the Northern Mountain Region (Phase2) (hereinafter referred to as "the Project") to the Socialist Republic of Vietnam (hereinafter referred to as "Vietnam"), and 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 consult with the officials concerned of the Government of Vietnam on the components of the first draft report, JICA sent to Vietnam the first Draft Report Explanation Team (hereinafter referred to as "the Team I"), from January 9 to January 18, 2003. However, the Vietnamese side and the Japanese side could not reach agreement on several details of the draft report.

On May 20, 2003, the Vietnamese side sent to the Japanese side "Sample design for primary schools (Decision No.355/QD-BXD)" issued on March 28, 2003 as reference documents and requested the Japanese side to reconsider the report. Upon the request, JICA conducted further technical examination and prepared the second draft report of the study.

In order to explain and consult with the officials concerned of the Government of Vietnam on the components of the second draft report, JICA sent to Vietnam the second Draft Report Explanation Team (hereinafter referred to as "the Team II"), headed by Mr. Fumio KIKUCHI, Resident Representative, JICA Vietnam Office, from August 10 to 15, 2003.

As a result of discussions, both parties confirmed the main items described on the attached sheets.

Hanoi, August 29, 2003



Mr. Fumio KIKUCHI
Leader
Basic Design Study Team
Japan International Cooperation Agency



Ms. Dang Huynh Mai
Vice Minister
Ministry of Education and Training
The Socialist Republic of Vietnam

ATTACHMENT

1. Components of the Draft Report

The Government of Vietnam agreed and accepted in principle the components of the second draft report explained by the Team II.

2. Japan's Grant Aid Scheme

The Vietnamese side understood the Japan's Grant Aid Scheme and the necessary measures to be taken by the Government of Vietnam as explained by the Team II and described in Annex-5 and Annex-6 of the Minutes of Meetings signed by both parties on August 12, 2002.

3. Schedule of the Study

JICA will complete the final report in accordance with the confirmed items and send it to the Government of Vietnam by October 2003.

4. Other relevant issues

4-1. Schools and Facilities covered by the Project

Both sides agreed on schools and components covered by the Project as shown in Annex-1.

4-2. "Sample Design for Primary Schools"

The Vietnamese side explained that "Sample design for primary schools (Decision No.355/QD/BXD)" were issued based on the "Classroom and School Concretization Program in Vietnam (Decision No.159/QD-Ttg)" approved by the Prime Minister. The Vietnamese side confirmed that contents of the "Sample design for primary schools" are the minimum requirements, and primary/secondary school construction programs/projects conducted by all the localities and donors are required to fulfill the requirements.

4-3. Official appraisal and approval

The Vietnamese side will secure the official appraisal and approval by the Government of Vietnam required for the implementation of the Project.

4-4. Works covered by the Vietnamese side

The Vietnamese side agreed that the timely completion of the site preparation works described in Annex-2 would be required. The Vietnamese side assured to complete the site preparation works before the commencement of Japanese construction.

4-5. Securing of Proposed Building Sites

The Vietnamese side confirmed that they will secure the identified building sites in the recipient schools till the actual commencement of the construction work.

4-6. Allocation of Personnel and Budget

The Vietnamese side agreed to allocate necessary budget and personnel (teaching and administrative staff) for proper use and maintenance of the facilities and equipment covered by the Project.

4-7. Proper Use and Maintenance

Both sides understood that proper use and maintenance of the facilities and equipment would be indispensable for their lifelong use. The Vietnamese side assured to facilitate their proper use and maintenance of facilities in the schools covered by the Project with the active involvement of concerned parties such as DOETs, BOETs, schools, communities and so on.

4-8. Software Component

The Vietnamese side requested the implementation of the software component within the scope of the Project in order to facilitate proper use and maintenance of the facilities in the schools covered by the Project.

4-9 Tax Exemption

The Vietnamese side confirmed to exempt all grant aid materials from taxes, customs clearance fees at the port of disembarkation as agreed in the Annex-5 and Annex-6 of the Minutes of Meetings signed by both parties on August 12, 2002. Also, based on this Minutes of Discussions, the Vietnamese side assured to exempt all Japanese nationals from customs duties, domestic taxes, and other fiscal levies which may be imposed in Vietnam with respect to the supply of the products and services under the verified contracts.

Annex1: Schools and components covered by the Project

School No.	School Name	Classrooms to be constructed	Head Master's Rooms to be constructed	Teaching Aid Rooms to be constructed	Building Type	Toilet Type
1st Phase						
Bac Giang Province:						
BG- 1	An Chau	12	1	1	2C+T+P, 2-10C	XXL
BG- 2s	Phi Dien (Sub School)	3			3C	S
BG- 4	Cau Go	12			2-12C	XXL
BG- 5	My Ha	9			3C, 2-6C	L
BG- 7	Tri Yen	7			3C, 4C	L
BG- 8	Dong Lo 2	14			2-6C, 2-8C	M, L
BG- 8s	Dong Lo 2 (Sub School)(New Site)	8			3C,5C	L
BG- 9	Hong Thai	6			2-6C	M
BG- 11	Ngoc Thien 1	10			2-10C	XL
BG- 13	Yen Son	20			2-6C, 2-6C, 2-8C	L, XL
BG- 15	Kien Lao	11			3C, 2-8C	XL
BG- 16	Hop Thinh	15		1	5C+T, 2-10C	M, L
BG- 17	Thanh Lam	6	1	1	3C,3C+T+P	M
BG- 18	Dong Viet	5			5C	M
BG- 19	Ninh Son	16	1	1	3C,5C,6C,2C+T+P	M, L
BG- 20	Yen Dinh	4			4C	S
Sub Total	16 Schools	158	3	4		
2nd Phase						
Thai Nguyen Province:						
TN- 2	Trung Hoi	8	1	1	2-8C+T+P	L
TN- 3	Nam Hoa 1	5		1	5C+T	M
TN- 4	Thi Tran Du	8			2-8C	L
TN- 5	Phu Lac	10	1	1	2-10C+T+P	XL
TN- 6	Tan Huong	7		1	3C, 4C+T	L
TN- 8	Ba Xuyen	4	1	1	4C+T+P	S
TN- 9	Doi Can	14	1	1	6C,6C,3C+T+P	M, L
TN- 10	Bao Cuong	4		1	4C+T	S
TN- 11	Yen Trach 1	12	1	1	2C+T+P, 2-10C	XXL
TN- 12	Linh Son	15	1	1	2-5C+T+P, 2-10C	M, L
TN- 14	Tan Phu	5		1	5C+T	M
TN- 16s	Hong Tien (Sub School)	3			3C	S
TN- 17	Binh Thanh	3	1	1	3C+T+P	S
TN- 19	Ha Chau	8	1	1	2-8C+T+P	L
Sub Total	14 Schools	106	8	12		
3rd Phase						
Tuyen Quang Province:						
TQ- 2	Vinh Loc	5		1	5C+T	M
TQ- 3	Bac Muc	11	1	1	2-11C+T+P	XL
TQ- 5s	Thuong Am (Sub School)	3			3C	S
TQ- 6	Phan Thiet	12			2-6C, 2-6C	XXL
TQ- 7	Thai Binh	4	1	1	4C+T+P	S
TQ- 8	Son Nam	7			3C, 4C	L
TQ- 10s	Xuan Quang (Sub School)	4			4C	S
TQ- 14	Phuc Thinh	5			5C	M
TQ- 17s	Dang Chau (Sub School)	3			3C	S
Sub Total	9 Schools	54	2	3		
Pho Tho Province:						
PT- 4	Tieu Son	6			6C	M
PT- 5	Det	13	1	1	3C+T+P, 2-10C	XXL
PT- 6	Van Lung	10			2-10C	XL
PT- 8	Co Tiet	11	1	1	2-11C+T+P	XL
PT- 10	Dong Xuan(New Site)	9	1	1	2-9C+T+P	L
PT- 11	Trung Nghia	5			5C	M
PT- 15	Vo Mieu 2	4			4C	S
PT- 16	Thanh Van	3			3C	S
PT- 20	Ha Thach	25	1	1	2-6C, 2-7C+T+P, 2-12C	XL,XXL
Sub Total	9 Schools	86	4	4		
Sub Total(3rd Phase)	18 Sc	140	6	7		
Total	48 Schools	404	17	23		

Annex-2: Site Preparation Works Covered by the Vietnamese Side

- ① Retaining wall construction
 - TQ-10s Xuan Quang
- ② Large scale cutting, filling and reclamation of the land
 - BG-5 My Ha
 - BG-15 Kien Lao
 - BG-18 Dong Viet
 - TQ-2 Vinh Loc
 - TQ-6 Phan Thiet
 - TQ-7 Thai Binh
- ③ Demolition of all concerned existing buildings in the proposed construction site
 - BG-1 An Chau
 - BG-2s Phi Dien
 - BG-5 My Ha
 - BG-8s Dong Lo 2
 - BG-11 Ngoc Thien 1
 - BG-13 Yen Son
 - BG-15 Kien Lao
 - BG-16 Hop Thinh
 - TN-2 Trung Hoi
 - TN-3 Nam Hoai
 - TN-10 Bao Cuong
 - TN-17 Binh Thanh
 - TQ-2 Vinh Loc
 - TQ-5s Thuong Am
 - TQ-6 Phan Thiet
 - TQ-10s Xuan Quang
 - TQ-14 Phuc Thinh
 - TQ-17s Dang Chau
 - PT-4 Tieu Son
 - PT-10 Dong Xuan
 - PT-20 Ha Thach
- ④ Demolition of existing building foundations, concrete structures, pavement, other structures etc.

BG-11 Ngoc Thien 1 (Removal of fences)
BG-17 Thanh Lam

⑤ Demolition and removal of existing trees, school gardens etc.
which affect the construction works

BG-5 My Ha
BG-11 Ngoc Thien 1
BG-13 Yen Son
BG-18 Dong Viet
TN-3 Nam Hoa 1
TN-4 Thi Tran Du
TQ-7 Thai Binh
PT-6 Van Lung
PT-16 Thanh Van
PT-20 Ha Thach

⑥ Others (Construction of access road etc.)

BG-5 My Ha (Removal of the road)
BG-8 Dong Lo 2 (Construction of access road)
BG-8s Dong Lo 2 (Removal of electric pole)
TQ-17s Dang Chau (Expansion of the road)

5. Cost Estimation Borne by the Recipient Country

School ID	Name of School	Demolition of Exist. Bldg/Slab	Removal of Exist. Trees	Plumbing Work	Electrical Work	Site Creation		Retaining Wall	
						Fill	Cut		
1st Stage									
Bac Giang Province									
BG-	1	An Chau	459,200	0	840,000	1,650,000	0	0	0
BG-	2s	Phi Dien (Sub School)	134,400	0	420,000	1,100,000	0	0	0
BG-	4	Cau Go	0	0	1,680,000	2,200,000	0	0	0
BG-	5	My Ha	134,400	102,000	420,000	1,100,000	0	1,400,000	0
BG-	7	Tri Yen	0	0	420,000	3,300,000	0	0	0
BG-	8	Dong Lo 2	0	0	840,000	5,500,000	0	0	0
BG-	8s	Dong Lo 2 (Sub School) (New Site)	548,800	0	420,000	1,100,000	0	0	0
BG-	9	Hong Thai	0	0	420,000	3,300,000	0	0	0
BG-	11	Ngoc Thien 1	266,000	34,000	840,000	2,200,000	0	0	0
BG-	13	Yen Son	8,400	68,000	1,260,000	3,300,000	0	0	0
BG-	15	Kien Lao	11,200	0	840,000	1,650,000	8,400,000	0	0
BG-	16	Hop Thinh	218,400	0	840,000	1,100,000	0	0	0
BG-	17	Thanh Lam	1,485,000	0	420,000	1,100,000	0	0	0
BG-	18	Dong Viet	0	68,000	420,000	1,650,000	0	12,600,000	0
BG-	19	Ninh Son	0	0	840,000	1,100,000	0	0	0
BG-	20	Yen Dinh	0	0	420,000	1,100,000	0	0	0
Total		16sites	3,265,800	272,000	11,340,000	32,450,000	8,400,000	14,000,000	0
2nd Stage									
Thai Nguyen Province									
TN-	2	Trung Hoi	336,000	0	420,000	1,100,000	0	0	0
TN-	3	Nam Hoa 1	716,800	68,000	420,000	1,100,000	0	0	0
TN-	4	Thi Tran Du	0	136,000	420,000	1,650,000	0	0	0
TN-	5	Phu Lac	0	0	420,000	2,200,000	0	0	0
TN-	6	Tan Huong	0	0	420,000	1,100,000	0	0	0
TN-	8	Ba Xuyen	0	0	420,000	1,650,000	0	0	0
TN-	9	Doi Can	0	0	840,000	1,100,000	0	0	0
TN-	10	Bao Cuong	714,000	0	420,000	2,750,000	0	0	0
TN-	11	Yen Trach 1	0	0	840,000	1,650,000	0	0	0
TN-	12	Linh Son	0	0	840,000	1,650,000	0	0	0
TN-	14	Tan Phu	0	0	420,000	1,100,000	0	0	0
TN-	16s	Hong Tien (Sub School)	0	0	420,000	1,100,000	0	0	0
TN-	17	Binh Thanh	112,000	0	420,000	2,750,000	0	0	0
TN-	19	Ha Chau	0	0	420,000	11,000,000	0	0	0
Total		14sites	1,878,800	204,000	7,140,000	31,900,000	0	0	0
3rd Stage									
Tuyen Quang Province									
TQ-	2	Vinh Loc	812,000	0	420,000	1,650,000	0	1,400,000	0
TQ-	3	Bac Muc	0	0	840,000	4,400,000	0	0	0
TQ-	5s	Thuong Am (Sub School)	700,000	0	0	0	0	0	0
TQ-	6	Phan Thiet	1,134,000	0	840,000	1,100,000	37,800,000	0	210,000,000
TQ-	7	Thai Binh	0	34,000	420,000	8,250,000	23,800,000	0	152,000,000
TQ-	8	Son Nam	0	0	420,000	1,650,000	0	0	0
TQ-	10s	Xuan Quang (Sub School)	588,000	0	0	0	0	0	260,000,000
TQ-	14	Phuc Thinh	602,000	0	420,000	1,100,000	0	0	0
TQ-	17s	Dang Chau (Sub School)	226,800	0	0	0	0	0	0
Total		9sites	4,062,800	34,000	3,360,000	18,150,000	61,600,000	1,400,000	622,000,000
Phu Tho Province									
PT-	4	Tieu Son	638,400	0	420,000	1,650,000	0	0	0
PT-	5	Det	0	0	840,000	1,650,000	0	0	0
PT-	6	Van Lung	0	238,000	840,000	1,650,000	0	0	0
PT-	8	Co Tiet	0	0	840,000	14,850,000	0	0	0
PT-	10	Dong Xuan(New Site)	1,008,000	0	420,000	1,650,000	0	0	0
PT-	11	Trung Nghia	0	0	420,000	1,650,000	0	0	0
PT-	15	Vo Mieu 2	0	0	420,000	2,200,000	0	0	0
PT-	16	Thanh Van	0	68,000	840,000	2,200,000	0	0	0
PT-	20	Ha Thach	204,400	204,000	840,000	2,200,000	0	0	0
Total		9sites	1,850,800	510,000	5,880,000	29,700,000	0	0	0

(VTD)

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