2-2-2 Basic Design

2-2-2-1 Selection of Schools and Setting Up of Component Sizes for the Project

(1) Criteria for Site Selection

During the Basic Design study, it was agreed by both the Vietnamese and Japanese sides that the Project schools should be selected from among the original 90 schools which the Government of Vietnam requested aid for, and in accordance with the following criteria:

Both countries have agreed, after reviewing the Project designs based on the "Sample Design for Primary Schools," that the increases in Project construction costs should be covered by a reduction in the number of Project schools.

Upon a request of the Japanese side, on July 16, 2003, the Vietnam side officially selected TQ-10 (The Xuan Quang school) to delete from the Project. Thus, after the deletion of TQ-10, the Project schools have been chosen from among 89 schools.

Only schools which fulfill all the criteria listed below were selected for the Project.

- 1) 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...
- 2) 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.
- 3) The ownership of land for construction is legally secured.
- 4) No constraints against construction such as occupation of out-of-law houses.
- 5) Access road for the movement of materials and for the construction works is properly constructed.
- 6) Topographically safe and appropriate-sized for construction.
- 7) No foreseen natural and environmental or social hazard.
- 8) Sufficient teachers, budget allocation and necessary cooperation from concerned people for the proper operation and maintenance of the facilities are secured.
- 9) Temporary classrooms during the period of construction can be prepared in the case of reconstruction.

Schools which fulfill the criteria listed below are given priority in selection.

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

From the results of the site surveys, the discovery of the following differences in school conditions led to the development of the above selection criteria:

a) Incomplete Schools:

There are nine "incomplete schools" (schools not having all class grade levels from 1 to 5; as compared to "complete schools" which have at least one class for all grade levels) among the surveyed schools. The Study Team confirmed from interviews with the school people that "incomplete schools" exist because of decisions made by the school managements to keep the distance of commuting time short and convenient for the lower grade children. As the enrollment rate at the schools in the target area is almost 100%, no special consideration for changing "incomplete schools" to "complete schools" is necessary.

(2) Calculating Classroom Shortages

To calculate the number of classroom shortages, the following has been considered:

1) Consideration of Future Population Changes

As shown in Fig. 2-1, the number of school-aged children in the four provinces has been decreasing each year due to family planning. Although there are some areas where students are increasing due to a population inflow, the trend in population decreases is predicted to continue in the future. Thus, if the number of necessary classrooms were calculated on the present number of students, there would be a more-than-needed surplus of classrooms at the time of Project completion. For these reasons, the calculation of the necessary number of classrooms will be based on the projected number of students at each school in the Project completion target Vietnamese academic year 2006.

The projected change of the number of students at each Project school can be found in Table 2-1.

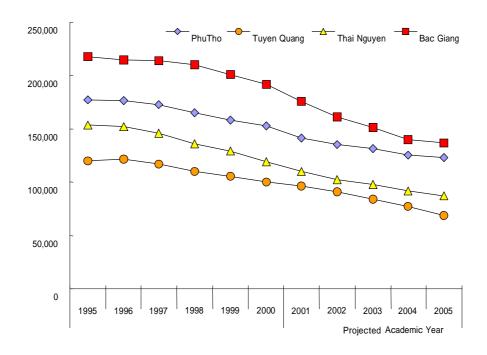


Fig. 2-1 Number of Primary School Students in Four Provinces, Project Area

Table 2-1 Projected Change of the Number of Students at Project Schools

No.	Name of School	97	98	99	00	01	Avarage growth rate	Number of Students 2001	Student: 2006
3G-1	An Chau	457	430	427	430	436	-1.1%	436	4
3G-1s 3G-2	An Chau (Sub school) Phi Dien *1	50 596	58 568	59 578	55 597	45 421	-1.8%	45	2
G-2s	Phi Dien (Sub school)	87	84	78	82	85	-7.3% -0.5%	421 85	
G-3	Dong Hung 2	329	452	398	411	321	1.7%	321	. 3
G-4	Cau Go	465	542	559	585	585	6.1%	585	. 7
G-5	My Ha	398	450	345	490	438	5.3%	438	5
G-6 G-7	Viet Lap Tri Yen	840 681	813 658	779 656	783 645	698 641	-4.4%	698	5
G-8	Dong Lo 2	594	591	585	590	592	-1,5% -0.1%	641 592	5 5
G-8s	Dong Lo 2 (Sub school)	256	254	251	257	258	0.2%	258	2
G-9	Hong Thai	950	879	845	787	731	-6.3%	731	5
G-10	Nam Hong	743	708	700	658	589	5.6%	589	4
G-11	Ngoc Thien 1 Hong Ky	1090	1084	1078	1060	949	-3.3%	949	8
G-12 G-13	Yen Son *2	524 528	493 517	467 524	468 716	429 694	-4.8% 8.2%	429 694	1,0
G-14	Dai Lam	691	642	626	548	545	-5.6%	546	1,0
G-14s	Dai Lam (Sub school)	225	215	210	189	162	-7.8%	162	1
G-15	Kien Lao	750	745	715	710	702	-1.6%	702	6
G-16	Hop Thinh	925	880	902	866	763	-4.6%	763	6
IG-17 IG-18	Thanh Lam Dong Viet	423 817	415 807	375 757	382 693	346 618	-4.8% -6.7%	346	2 4
G-19	Ninh Son	510	525	542	550	555	2,1%	618 555	6
G-20	Yen Dinh	576	549	562	533	488	-4.0%	488	3
						Total	2,0%	14,093	13,1
No.	Name of School	97	98	99	00	01	Avarage growth rate	Number of Students 2001	Number Student 2006
N-1	La Hien	629	581	573	544	500	-5,5%	500	2000
N-2	Trung Hoi *	587	531	523	487	461	-5.8%	370	2
N-3	Nam Hoa 1	671	621	585	614	560	-4.3%	560	4
N-4	Thi Tran Du	813	795	773	748	722	-2.9%	722	6
N-5	Phu Lac (Sub school)	726 178	727 157	723	667	634	~3,3%	634	5
N-5ş N-6	Tan Huong	928	834	162 783	159 705	123 619	-8,3% -9,6%	123 619	3
N-7	Thanh Ninh	882	805	711	632	566	-10.5%	566	3
N-8	Ba Xuyen	713	645	506	437	394	-13.6%	394	1
N-9	Doi Can	1498	1475	1432	1361	1213	-5.1%	1,213	9
N-10 N-11	Bao Cuong	694	609	562	526	453	-10.1%	453	2
N-12	Yen Trach 1 Linh Son	780 1050	760 1016	682 840	632 756	574 750	-7.3% -7.8%	574 750	3 4
N-13	Van Yen	1157	1054	1056	989	931	-5,2%	931	7
N-14	Tan Phu	578	546	576	578	476	-4,3%	476	3
N-15	Luong Son	571	448	443	410	364	10.3%	364	2
N-16 N-16s	Hong Tien Hong Tien (Sub school)	658 389	572 361	587 357	548	496 306	6.6%	496	3
N-17	Binh Thanh	546	490	436	335 363	315	-5.8% -12,8%	306 315	2 1
	Binh Thanh (Sub school)	213	196					157	1
IN-1/S				1811	172	157	-7.3%		
	Yen Ninh *	1011	928	181 834	172 773	157 690	-7.3% -9.1%	594	3
N-17s N-18 N-19	Ha Chau	1011 717	928 662	834 597	773 528	690 464	-9.1% -10,3%	594 464	. 3
N-18 N-19		1011	928	834	773	690 464 507	-9.1% -10,3% -8.6%	594 464 430	3 2 2
N-18 N-19	Ha Chau	1011 717	928 662	834 597	773 528	690 464	-9.1% -10,3%	594 464 430 12,011 Number of Students	3 2 2 8,3 Number - Student
N-18 N-19 N-20 No.	Ha Chau Lau Thuong * Name of School	1011 717 730 97	928 662 697 98	834 597 665 99	773 528 574 00	690 464 507 Total	-9.1% -10.3% -8.6% -7.6% Avarage growth rate	594 464 430 12,011 Number of Students 2001	3 2 8,3 Number Student 2006
N-18 N-19 N-20	Ha Chau Lau Thuong *	1011 717 730	928 662 697	834 597 665	773 528 574	690 464 507 Total	-9.1% -10.3% -8.6% -7.6% Avarage	594 464 430 12,011 Number of Students	3 2 2 8,3 Number - Student
N-18 N-19 N-20 No. Q-1 Q-2 Q-3	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loc Bac Muc	97 624 821 602	928 662 697 98 476 830 556	99 433 776 552	773 528 574 00 404 697 492	690 464 507 Total 01 373 619 479	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5%	594 464 430 12,011 Number of Students 2001 373 619 479	3 2 2 8,3 Number Student 2006 1 4
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loc Bac Muc An Tuong	97 624 821 602 620	928 662 697 98 476 830 556 600	99 433 776 552 549	773 528 574 00 404 697 492 492	690 464 507 Total 01 373 619 479 436	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -8.4%	594 464 430 12.011 Number of Students 2001 373 619 479 436	3 2 2 8,3 Number Student 2006 1 4 3
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Lee Bae Mue An Tuong Thuong Am	97 624 821 602 620 565	928 662 697 98 476 830 556 600 459	99 433 776 552 549 415	773 528 574 00 404 697 492 492 367	690 464 507 Total 01 373 619 479 436 342	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -8.4% -11.7%	594 464 430 12,011 Number of Students 2001 373 619 479 436 342	3 2 2 8.3 Number Student 2006 1 4 3 2
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-5s	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Lee Bae Mue An Tuong Thuong Am (Sub school)	97 624 821 620 565 232	928 662 697 98 476 830 556 600 459 277	99 433 776 552 549 415 206	773 528 574 00 404 697 492 492 367 165	690 464 507 Total 373 619 479 436 342 149	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -8.4% -11.7% -9.0%	594 464 430 12.011 Number of Students 2001 373 619 479 436 342 149	3 2 2 8,3 Number Student 2006 1 4 3 3 2
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-5s Q-6	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loc Bac Muc An Tuong Thuong Am Thuong Am (Sub school) Phan Thiet	97 624 821 602 620 565 232 888	928 662 697 98 476 830 556 600 459 277 894	99 433 776 552 549 415 206 896	773 528 574 00 404 697 492 492 367 165 899	690 464 507 Total 01 373 619 479 436 342 149 950	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -11.7% -9.0%	594 464 430 12,011 Number of Students 2001 373 619 479 436 342 149 950	3 2 2 8.3 Number Student 2006 1 4 3 2 1
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-5s Q-6 Q-7 Q-8	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loc Bac Muc An Tuong Thuong Am Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam	97 624 821 602 620 565 232 888 266 711	928 662 697 98 476 830 556 600 459 277 894 252 701	834 597 665 99 433 776 552 549 415 206 896 240 691	773 528 574 00 404 697 492 492 367 165 899 230 621	690 464 507 Total 01 373 619 479 436 342 149 950 197 625	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -8.4% -11.7% -9.0% -7.15% -3.1%	594 464 430 12,011 Number of Students 2001 373 619 479 436 342 149 950 197	3 2 2 8.3 Number Student 2006 1 4 3 2 1 1
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-5 Q-6 Q-7 Q-8 Q-9	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Lee Bae Mue An Tueng Thueng Am Thueng Am Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La	97 624 821 602 620 565 232 888 266 711 669	928 662 697 98 476 830 556 600 459 277 894 252 701 636	834 597 665 99 433 776 552 549 415 206 896 240 691 588	773 528 574 00 404 697 492 367 165 899 230 621 543	690 464 507 Total 373 619 479 436 342 149 950 197 625 514	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -8.4% -9.0% -11.7% -7.15 -3.1% -6.4%	594 464 430 12.011 Number of Students 2001 373 619 479 436 342 149 950 197 625 514	3 2 2 8.3 Number Student 2006 1 4 3 2 1 1 1,0 1 5 3 3
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-5 Q-6 Q-7 Q-8 Q-9 Q-10s	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Bac Muc An Tuong Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school)	97 624 821 602 620 565 232 888 266 711	928 662 697 98 476 830 556 600 459 277 894 252 701	99 433 776 552 549 415 206 896 240 691	773 528 574 00 404 697 492 492 367 165 899 230 621 543 157	690 464 507 Total 01 373 619 479 436 342 149 950 197 625 514 153	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -11.7% -9.0% -7.15% -3.1% -6.4%	594 464 430 12,011 Number of Students 2001 373 619 479 436 342 149 950 197 625 514	3 2 2 8.3 Number Student 2006 1 4 3 3 2 1 1,0 1 5 3 1
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-6 Q-7 Q-8 Q-9 Q-10s Q-110s	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loc Bac Muc An Tueng Thuong Am Thuong Am Thuong Am Thuong Am Thuong Inin Son Nam Y La Xuan Quang (Sub school) Yen Huong Yen Huong	97 624 821 602 620 565 232 888 266 711 669 165	928 662 697 98 476 830 556 600 459 277 894 252 701 636 163	834 597 665 99 433 776 552 549 415 206 896 240 691 588 159	773 528 574 00 404 697 492 367 165 899 230 621 543 157 214	690 464 507 Total 01 373 619 479 436 342 149 950 197 625 514 153 221	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -8.4% -11.7% -9.0% 1.7.3% -7.1% -1.3,9%	594 464 430 12,011 Number of Students 2001 373 619 479 436 342 149 950 197 625 514	3 2 2 8,3 Number Student 2006 1 4 3 2 1 1 1,0 1 5 3 3 1 2 2 1
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-3 Q-4 Q-5s Q-6 Q-7 Q-8 Q-9 Q-10s Q-11 Q-12	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Bac Muc An Tuong Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school)	97 624 821 602 620 565 232 888 266 711 669	928 662 697 98 476 830 556 600 459 277 894 252 701 636	834 597 665 99 433 776 552 549 415 206 896 240 691 588	773 528 574 00 404 697 492 492 367 165 899 230 621 543 157	690 464 507 Total 373 619 479 436 342 149 950 153 221 360	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -8.4% -11.7% -9.0% 1.7% -3.1% -6.4% -1.9% 3.3% -1.9%	594 464 430 12,011 Number of Students 201 373 619 479 436 3422 149 950 197 625 514 153 221	3 2 2 2 8,3 Number Student 2006 1 4 4 3 2 1 1,0 1 5 3 1 1 2 3
N-18 N-19 N-20 N-20 N-20 N-20 Q-1 Q-2 Q-3 Q-4 Q-5s Q-5s Q-6 Q-7 Q-7 Q-10s Q-11 Q-12 Q-12 Q-13	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Lee Bae Mue An Tuong Thuong Am Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Guang (Sub school) Yen Huong Nang Kha Song Lo 1 Phue Thinh	97 624 821 602 620 565 232 888 266 711 669 165 - 380 485 515	928 662 697 98 476 830 556 600 459 277 894 252 701 636 163 - 370 459 448	99 433 776 552 549 415 206 896 240 691 588 159 390 453 388	773 528 574 00 404 697 492 367 165 899 230 621 543 157 214 340 443 350	690 464 507 Total 373 619 479 436 342 149 950 197 625 514 153 221 360 371 403	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -8.4% -11.7% -9.0% 1.7% -7.1% -3.1% -1.19% -1.10% -6.3% -1.0%	594 464 430 12.011 Number of Students 2001 373 619 479 436 342 149 950 197 625 514 153 221 360 371 403	3 2 2 2 8,3 Number Student 2006 2006 2006 2006 2006 2006 2006 200
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-5 Q-5 Q-6 Q-7 Q-9 Q-10s Q-11 Q-12 Q-13 Q-14	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Bac Muc An Tuong Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school Yen Huong Nang Kha Song Lo 1 Phuo Thinh Tan Yen	97 624 821 602 620 565 232 888 266 711 669 165 - 380 485 515	928 662 697 98 476 830 556 600 459 277 894 252 701 636 163 - 370 457 448 372	99 433 776 552 549 415 206 896 240 691 588 159 390 453 388 384	773 528 574 00 404 697 492 367 165 899 230 621 543 157 214 340 443 350 326	690 464 507 Total 01 373 619 436 342 149 950 197 625 514 153 221 360 371 403 254	-9.1% -10.3% -8.6% -7.6% -7.6% -7.6% -9.0% -11.8% -6.7% -5.5% -11.7% -9.0% -7.1% -6.4% -1.19% -6.3% -1.0% -6.3% -5.3% -5.3% -5.3%	594 464 464 430 12.011 Number of Students 2001 373 373 479 436 149 950 197 625 514 153 221 360 371 403	3 2 2 2 2 8.3 Number 5 8.3 Number 5 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-5 Q-6 Q-7 Q-8 Q-11 Q-11 Q-11 Q-11 Q-14 Q-15 Q-15 Q-16 Q-17	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Lee Bae Mue An Tuong Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school) Yen Huong Song Le 1 Phue Thinh Tan Yen Hung Thanh Dang Chau	97 624 821 602 565 232 888 266 165 - 380 485 515 409 588 645	928 662 697 98 476 830 556 600 459 277 894 252 701 636 163 - 370 457 448 372 548 636	834 597 665 99 433 776 552 206 896 240 691 588 159 390 453 388 344 531 664	773 528 574 00 404 697 492 492 367 165 899 230 621 543 157 214 340 443 350 326 513 643	690 464 507 Total 373 619 479 436 342 149 950 197 625 514 153 221 360 371 403 254 508	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -11.7% -7.1% -7.1% -6.4% -1.17% -6.4% -1.19% -3.3% -1.10% -3.3% -1.10% -1.10% -3.1% -1.10% -3.1% -1.10% -3.1% -1.10% -3.1% -1.10% -3.1% -1.10% -3.1% -1.10% -3.1% -1.10% -3.1% -1.10% -3.1% -1.10% -3.1% -1.10% -3.1% -1.10% -3.1%	594 464 464 430 12.011 Number of Students 2001 373 619 479 436 342 149 950 197 625 514 153 221 360 371 403 254 508	3 2 2 2 2 8.3 Number 5 8.4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-5 Q-6 Q-7 Q-8 Q-11 Q-11 Q-11 Q-11 Q-14 Q-15 Q-15 Q-16 Q-17	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Lee Bae Mue An Tuong Thuong Am Thuong Am Thuong Am Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school Yen Huong Nang Kha Seng Le 1 Phue Thinh Tan Yen Hung Thanh	97 624 821 602 565 232 888 266 165 - 380 485 515 409 588 645	928 662 697 98 476 830 556 600 459 277 894 252 701 636 163 - 370 457 448 372 548 636	99 433 776 552 549 415 206 896 240 691 588 159 390 453 388 344 531	773 528 574 00 404 697 492 492 367 165 899 230 621 543 157 214 340 350 326 513	690 464 507 Total 01 373 619 479 436 342 149 950 197 625 514 153 221 360 371 403 254 508	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -8.4% -11.7% -9.0% -7.1% -7.1% -6.4% -1.19% -1.10% -6.3% -1.10% -1.3% -1.3% -1.3% -1.4% -1.3% -1.4% -1.4%	594 464 430 12,011 Number of Students 2001 373 619 479 436 342 149 950 197 625 514 153 3221 360 371 403 254 508 605	3 2 2 2 2 8.3 8.3 Number Student 2006 2006 2006 2006 2006 2006 2006 200
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-5 Q-6 Q-7 Q-8 Q-11 Q-11 Q-12 Q-13 Q-14 Q-15 Q-15 Q-16 Q-16	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Lee Bae Mue An Tuong Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school) Yen Huong Song Le 1 Phue Thinh Tan Yen Hung Thanh Dang Chau	97 624 821 602 565 232 888 266 165 - 380 485 515 409 588 645	928 662 697 98 476 830 556 600 459 277 894 252 701 636 163 - 370 457 448 372 548 636	834 597 665 99 433 776 552 206 896 240 691 588 159 390 453 388 344 531 664	773 528 574 00 404 697 492 492 367 165 899 230 621 543 157 214 340 443 350 326 513 643	690 464 507 Total 01 373 619 479 436 342 149 950 197 625 514 153 221 360 371 403 254 508 605 615	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -8.4% -11.7% -9.0% -7.1% -7.1% -6.4% -1.19% -1.10% -6.3% -1.10% -1.3% -1.3% -1.3% -1.4% -1.3% -1.4% -1.4%	594 464 430 12.011 Number of Students 201 373 619 479 436 342 149 950 197 625 514 153 221 360 371 403 254 508 605 115 7,559	3 2 2 2 2 3 3 Number 1 1 0 5 5 6.0 Number 5 Student 2 2 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
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N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-6 Q-7 Q-8 Q-10 Q-11 Q-12 Q-12 Q-13 Q-14 Q-15 Q-17 Q-17 S-18 No.	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Lee Bae Mue An Tueng Thueng Am Thueng Am Thueng Am Thai Binh Son Nam Y La Xuan Quang (Sub school) Yen Hueng Nang Kha Song Le 1 Phue Thinh Tan Yen Hung Thanh Dang Chau Dang Chau (Sub school) Name of School Hy Queng	97 624 821 602 620 565 232 888 266 711 669 165 380 485 515 409 485 442	928 662 697 98 476 830 556 600 459 277 7894 252 701 636 163 - 370 457 448 372 542 636 121	99 433 776 552 549 415 206 896 240 691 588 159 390 453 384 531 664 116	773 528 574 00 404 697 165 899 230 621 157 214 340 443 350 326 513 643 102	690 464 507 Total 01 373 619 479 436 342 149 950 197 625 514 153 221 360 371 403 254 508 605 115 Total	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -8.4% -11.7% -9.0% -7.1% -7.1% -1.1% -6.4% -1.1.9% -3.1% -1.1.0% -1.3% -1.3% -1.3% -5.3% -1.3% -5.3% -1.5% -3.4% -5.2% Avarage growth rate -6.8%	594 464 430 12,011 Number of Students 2001 373 619 479 436 342 149 950 197 625 514 153 221 360 371 403 254 508 605 115 7,559	3 2 2 2 8.3 Number Student 2006 200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-5 Q-6 Q-7 Q-10 Q-11 Q-12 Q-13 Q-14 Q-15 Q-17 Q-17 Q-17 Q-17 Q-17 Q-17 Q-17 Q-17	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Lee Bae Mue An Tuong Thuong Am Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Guang (Sub school) Yen Huong Nang Kha Song Le 1 Phue Thinh Tan Yen Hung Thanh Dang Chau Dang Chau (Sub school) Name of School Hy Cuong T.T. Song Thao Phuong Trung Tieu Son	97 624 821 602 565 232 888 266 711 669 165 - 380 485 142 97 515 582 350 707	928 6622 697 98 476 830 459 277 701 636 636 459 277 448 372 342 458 121	99 433 776 552 549 415 206 691 588 394 416 531 116 99 458 557 294 630	773 528 574 00 404 697 492 367 165 399 230 621 543 3157 214 443 350 326 513 310 20 00 447 554 286 7	6900 464 464 464 464 464 464 464 464 464 4	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -11.7% -7.1% -6.4% -11.7% -6.4% -1.1% -6.4% -1.1% -6.4% -1.1% -6.4% -1.1% -6.4% -1.3%	594 464 464 430 12.011 Number of Students 2001 373 619 479 436 3942 149 950 197 625 514 153 221 360 371 403 254 508 605 115 7,559 Number of Students 2001 387 506 298	3 2 2 2 2 8.3 Number 5 5 6.0 Number 5 Student 2006 2 2 4 4 2 3 3 3
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-5 Q-5 Q-5 Q-5 Q-10 Q-11 Q-12 Q-11 Q-12 Q-15 Q-15 Q-17 No. I-1 T-2 I-3 I-4 I-2 I-2 I-2 I-2 I-2 I-2 I-2 I-2 I-2 I-2	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Bae Mue An Tuong Thuong Am Thuong Am Thuong Am Thuong Am Thuong Am Thuong Sam Thuong Am Thuong Sam Thuong Sam Vinha Binh Son Nam Y La Xuan Quang (Sub school) Yen Huong Nang Kha Song Lo 1 Phuo Thinh Tan Yen Hung Thanh Dang Chau Dang Chau (Sub school) Name of School Hy Cuong T.T. Song Thao Phuong Trung Tieu Son Det	97 624 821 602 620 565 232 888 266 711 669 165 380 485 515 409 588 645 142	928 6622 697 98 476 600 556 600 459 277 701 636 636 163 457 448 370 457 448 370 457 448 370 457 457 457 457 457 457 457 457 457 457	99 433 776 552 549 415 206 691 588 159 390 453 388 159 390 453 388 451 166 452 456 456 466 67 466 67 466 67 466 67 67 67 67 67 67 67 67 67 67 67 67 6	773 528 574 00 404 492 492 492 492 230 621 543 350 513 363 63 643 644 756 765 765 765 765 765 765 765	6900 464 464 464 464 464 464 464 464 464 4	-9.1% -10.3% -8.6% -7.6% -7.6% -7.6% -9.0% -9.11.8% -9.0% -11.7% -9.0% -7.1% -7.1% -9.1.7% -7.1% -1.9.6% -1.9.6% -1.9.6% -3.6% -1.9.6% -3.6% -3.6% -3.6% -3.6% -3.6% -3.6% -3.6% -3.6% -3.6% -3.6% -3.8% -3.8% -3.8% -3.8% -3.8% -3.8% -3.8%	594 4464 430 12,011 Number of Students 2001 373 3619 479 436 342 149 950 197 625 514 153 3221 360 371 403 254 508 605 7,559 Number of Students 2001 387 506 298 485	3 2 2 2 8.3 8.3 Number 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-5 Q-6 Q-7 Q-12 Q-11 Q-12 Q-13 Q-15 Q-17 Q-17 Q-17 Q-17 Q-17 Q-17 Q-17 Q-17	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Lee Bae Mue An Tuong Thuong Am Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Guang (Sub school) Yen Huong Nang Kha Song Lo 1 Phuc Thinh Tan Yen Hung Thanh Dang Chau Dang Chau (Sub school) Name of School Hy Cuong T.T. Song Thao Phuong Trung Tieu Son Det Van Lung	97 624 821 602 565 232 888 266 711 669 165 - 380 485 515 515 515 515 515 707 986	928 662 697 98 476 830 459 476 830 459 277 701 636 67 458 372 542 848 8568 329 96 47 964 732	834 597 665 99 433 776 552 415 524 415 240 691 588 691 1588 344 116 99 458 557 294 99 458 99 99 99 99 99 99 99 99 99 99 99 99 99	773 528 574 00 404 697 492 367 165 899 230 621 543 340 340 340 340 350 350 30 30 30 30 30 30 30 30 30 30 30 30 30	6900 464 464 464 464 464 464 464 464 464 4	-9.1% -10.3% -8.6% -7.6% -7.6% -7.6% -1.1.8% -6.7% -5.5% -1.1.7% -7.1.5% -6.4% -1.1.7% -6.4% -1.1.9% -7.1.5% -1.1.9% -7.1.5% -1.1.9% -7.1.5% -1.3.8% -1.3.8% -1.3.8% -1.3.8% -1.3.8% -3.4% -3.8% -3.4% -3.4% -3.4% -3.8% -3.4% -3.4% -3.3%	594 464 464 464 430 12.011 Number of Students 2001 373 479 436 342 149 950 197 625 514 4153 221 360 371 403 254 508 605 7,559 Number of Students 2001 387 506 298 486 849 792	3 2 2 2 2 8.3 Number 5 8.4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-6 Q-7 Q-10 Q-11 Q-12 Q-13 Q-17 Q-17 Q-17 Q-17 Q-17 D-17 D-17 D-17 D-17 D-17 D-17 D-17 D	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Bae Mue An Tuong Thuong Am Thuong Am Thuong Am Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school) Yen Huong Nang Kha Song Lo 1 Phue Thinh Tan Yen Hung Thanh Dang Chau Dang Chau (Sub school) Name of School Hy Cuong T.T. Song Thao Phuong Trung Tieu Son Det Van Lung T.T. Yen Lap * Co Tiet	97 624 821 602 565 232 888 266 711 669 165 - 380 485 515 515 515 515 515 707 986	928 662 697 98 476 830 459 476 830 459 277 701 636 67 458 372 542 848 8568 329 96 47 964 732	834 597 665 99 433 776 552 415 524 415 240 691 588 691 1588 344 116 99 458 557 294 99 458 99 99 99 99 99 99 99 99 99 99 99 99 99	773 528 574 00 404 697 492 367 165 899 230 621 543 340 340 340 340 350 350 30 30 30 30 30 30 30 30 30 30 30 30 30	690 (690 (690 (690 (690 (690 (690 (690 (-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -11.7% -7.15% -6.4% -1.17% -6.4% -1.19% -5.3% -1.10% -5.3% -1.15% -4.6% -7.5% -7.3%	594 464 430 12,011 Number of Students 2001 373 619 479 436 342 149 950 197 625 514 153 360 371 403 254 508 605 115 7,559 Number of Students 2001 387 506 298 485 849 792 386 5543	3 2 2 2 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4
N-18 N-19 N-19 N-20 No. Q-1 Q-2 Q-3 Q-5 Q-5 Q-5 Q-5 Q-7 Q-10 Q-11 Q-11 Q-11 Q-15 No. T-1 T-2 T-3 T-4 T-5 T-6 T-7 T-8 T-9 T-9	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Bae Mue An Tuong Thuong Am Thuong Am Thuong Am Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school) Yen Huong Nang Kha Song Lo 1 Phue Thinh Tan Yen Hung Thanh Dang Chau Dang Chau Dang Chau Chau (Sub school) Name of School Hy Quong T.T. Song Thao Phuong Trung Tieu Son Det Van Lung T.T. Yen Lap * Co Tiet Am Thuong (Sub school)	97 624 621 621 622 620 620 565 232 888 266 7380 485 515 409 588 645 142 97 515 582 3500 797 986 789 910 738 818	928 6622 697 93 476 830 459 277 70 457 448 372 542 636 61 121 93 488 488 329 667 4732 868 868 868 868 868 868	99 433 776 552 549 415 206 691 588 159 390 453 388 159 453 344 116 458 557 294 630 90 812 821 821 821 821 821 821	773 528 574 00 404 404 492 492 492 492 492 492 492 492 492 49	6900 464 464 464 464 464 464 464 464 464 4	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -8.4% -11.7% -9.0% 1.7% -7.1% -7.1% -6.4% -1.19% -1.0% -3.3% -1.19% -5.3% -1.19% -5.3% -1.3% -5.2% Avarage growth rate -6.8% -3.4% -3.4% -3.4% -3.4% -3.4% -3.4% -3.3% -3.4% -3.3% -3.4% -3.3% -3.4% -3.3% -3.4% -3.3% -3.4% -3.3% -3.4% -3.3% -3.3% -3.3% -3.4% -3.3%	594 464 430 12,011 Number of Students 2001 373 619 479 436 619 479 436 6342 149 950 197 625 514 153 3221 360 371 403 254 508 605 7,559 Number of Students 2001 387 506 298 485 849 792 386 543 752	3 2 2 2 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4
N-18 N-19 N-20 No. G-1 G-2 G-3 G-5 G-5 G-5 G-7 G-8 G-11 G-12 G-13 G-11 G-11 G-11 G-11 G-11 G-11 G-11	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Lee Bae Mue An Tuong Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Guang (Sub school) Yen Huong An Song Lo 1 Phue Thinh Tan Yen Hung Thanh Dang Chau Dang Chau Dang Chau Dang Chau Dang Chau T.T. Song Thao Phuong Trung Tieu Son Det Vyan Lung T.T. Yen Lap * Co Tiet Am Thuong Am Thuong (Sub school) Dong Xuan	97 624,8211 602 620 520 520 521 692 629 620 620 620 620 620 620 620 620 620 620	928 6622 697 98 476 830 556 600 277 701 636 6163 - 370 457 448 372 542 636 121 98 488 329 96 97 97 98 94 94 94 96 96 97 97 98 98 98 98 98 98 98 98 98 98 98 98 98	834 433 776 552 549 415 206 691 588 691 588 453 388 453 388 453 388 453 388 453 388 453 388 453 388 453 454 454 455 454 455 455 455	773 528 574 00 404 492 492 492 230 621 543 350 621 543 350 621 543 350 621 721 447 755 899 9230 00 447 755 899 930 00 621 621 621 621 621 621 621 621 621 621	6900 4791 701 101 101 101 101 101 101 101 101 10	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -8.4% -11.7% -7.1% -6.4% -11.7% -6.4% -1.10% -6.3% -1.0% -6.3% -1.0% -6.3% -1.3% -3.3%	594 464 464 430 12,011 Number of Students 2001 373 619 479 436 342 149 950 197 625 514 153 221 360 371 403 254 508 605 115 7,559 Number of Students 2001 387 506 298 489 792 386 549 792 386 549 792	3 2 2 2 8.3 Number Student 2006 6.0 Number Student 2008 6.0 Number 2 2 2 2 3 3 7 7 8 8 2 2 3 3 6 6 2 2 2
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-5 Q-5 Q-5 Q-5 Q-7 Q-10 Q-11 Q-11 Q-17 No. I-1 I-2 I-3 I-4 I-3 I-4 I-5 I-6 I-7 I-8 I-9 I-10 I-9 I-10 I-9 I-10 I-9 I-10 I-9 I-10 I-10 I-10 I-10 I-10 I-10 I-10 I-10	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Bac Muc An Tuong Thuong Am Thuong Am Thuong Am Thuong Am Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school) Yen Huong Nang Kha Song Lo 1 Phue Thinh Tan Yen Hung Thanh Dang Chau Dang Chau (Sub school) Name of School Hy Cuong T.T. Song Thao Phuong Trung Tieu Son Det Van Lung T.T.Yen Lap * Co Tiet Am Thuong CSub school) Dong Xuan Trung Nghia	97 624 821 602 620 565 232 888 266 7380 485 515 409 588 645 552 707 986 789 910 738 818 527	928 662 697 98 476 6697 98 476 697 98 830 556 600 97 98 994 459 277 91 98 94 452 452 662 667 97 98 667 98 6	99 433 776 552 549 415 206 691 588 159 390 453 388 391 453 388 451 453 453 458 451 661 670 681 681 681 681 681 681 681 681 681 681	773 528 528 574 00 404 492 492 492 492 230 621 543 350 350 311 340 00 447 554 428 458 569 67 77 70 70 70 70 70 70 70 70 7	6900 464 464 464 464 464 464 464 464 464 4	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -5.5% -8.4% -11.7% -9.0% -1.1% -6.4% -1.1% -6.3% -1.3% -1.3% -1.3% -3.6% -3.6% -3.6% -3.6% -3.7% -3.8% -3.8% -3.8% -3.8% -3.8% -3.8% -3.8% -3.4% -3.8% -	594 4464 4464 12,011 Number of Students 2001 373 3619 479 436 342 149 950 197 625 514 153 321 360 3711 403 360 550 115 7,559 Number of Students 2001 2387 506 298 485 485 792 386 543 752 0 405 505	3 2 2 2 8.3 8.3 8.3 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4 8.4
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-5 Q-6 Q-7 Q-12 Q-11 Q-12 Q-12 Q-13 Q-15 No. T-1 T-2 T-3 T-4 T-5 T-4 T-5 T-7 T-8 T-9 T-9 T-9 T-9 T-91 T-11 T-11	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Bae Mue An Tuong Thuong Am Thuong Am Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school Yen Huong Nang Kha Seng Lo 1 Phue Thinh Tan Yen Hung Thanh Dang Chau Dang Chau (Sub school) Name of School Hy Cuong T.T. Song Thao Phuong Trung Tieu Son Det Van Lung T.T. Yen Lap Am Thuong Am Thuong Am Thuong (Sub school) Deng Xuan Trung Nghia Phu Coc	97 624 821 602 629 565 232 888 266 711 669 165 - 380 485 515 515 515 515 582 350 707 986 789 910 738 818 - 527 790	928 662 697 98 476 830 459 92 868 894 476 894 476 894 476 894 476 894 476 894 476 894 488 829 636 631 806 -446 520 765 5	99 433 776 552 433 776 552 549 415 206 691 588 396 453 390 453 316 453 517 57 57 57 57 57 57 57 57 57 57 57 57 57	773 528 574 00 404 492 3967 1655 399 2300 326 621 543 3157 214 443 350 326 553 447 893 102	6900 464 464 464 464 464 464 464 464 464 4	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -11.7% -7.1% -6.4% -11.7% -3.1% -6.4% -1.1% -6.4% -1.1% -3.8% -3.3% -1.0% -3.3% -1.0% -3.8% -3.4% -3.8% -3.8% -3.8% -3.8% -3.8% -3.8% -3.8% -3.8% -3.8% -3.8% -3.8% -3.8% -3.8% -3.9%	594 464 464 464 430 12.011 Number of Students 2001 373 479 436 3942 149 950 197 625 514 153 221 360 371 403 3254 508 605 115 7,559 Number of Students 2001 387 508 485 485 849 792 386 543 752 0 405 505 666	3 2 2 2 8.3 Number 5 14 14 14 14 14 14 14 14 14 14 14 14 14
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-5 Q-7 Q-8 Q-10 Q-11 Q-12 Q-13 Q-14 Q-17 Q-17 Q-17 Q-17 Q-17 Q-17 Q-17 Q-17	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Bac Muc An Tuong Thuong Am Thuong Am Thuong Am Thuong Am Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school) Yen Huong Nang Kha Song Lo 1 Phue Thinh Tan Yen Hung Thanh Dang Chau Dang Chau (Sub school) Name of School Hy Cuong T.T. Song Thao Phuong Trung Tieu Son Det Van Lung T.T.Yen Lap * Co Tiet Am Thuong CSub school) Dong Xuan Trung Nghia	97 624 821 602 620 565 232 888 266 7380 485 515 409 588 645 552 707 986 789 910 738 818 527	928 662 697 98 476 662 697 697 697 697 697 697 697 697 697 697	834 597 665 99 433 776 552 549 415 206 691 588 691 588 159 390 453 386 453 384 453 384 453 384 453 384 453 463 463 463 463 463 463 463 46	773 528 574 00 404 447 492 492 492 492 492 492 492 492 492 492	6900 46456 456 456 456 456 456 465 666 665 665	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -5.5% -8.4% -11.7% -7.1% -7.1% -6.4% -1.1% -6.3% -1.0% -3.6% -1.2% -3.6% -1.3,6% -1.3,6% -3.6% -1.3,6% -1.	594 4464 4464 430 12,011 Number of Students 2001 373 373 479 436 342 149 950 197 625 514 153 2211 360 371 403 3254 508 605 615 849 792 201 387 508 485 508 485 508 666 666 666	3 2 2 2 8.3 Number Student 2006 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
N-18 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-5 Q-6 Q-7 Q-12 Q-11 Q-12 Q-12 Q-13 Q-15 No. T-1 T-2 T-3 T-4 T-5 T-4 T-5 T-7 T-8 T-9 T-9 T-9 T-9 T-91 T-11 T-11	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loc Bac Muc An Tueng Thuong Am Thuong Am Thuong Am Thuong Am Thuong Am Thuong Sem Thai Birih Son Nam Y La Xuan Quang (Sub school) Yen Huong Nang Kha Song Lo 1 Phuo Thinh Tan Yen Hung Thanh Dang Chau Dang Chau (Sub school) Name of School Hy Cueng T.T. Song Thao Phuong Trung Tieu Son Det Van Lung Ti.T. Yen Lap * Co Tiet Am Thuong Am Thuong (Sub school) Dong Xuan Trung Nghia Phu Loc Sai Nga Thanh Mieu Vo Mieu 2	97 624 821 602 620 565 232 888 266 711 669 155 515 409 588 645 515 142 97 515 888 8188 645 552 777 986 789 910 738 818 818 818	928 662 697 98 476 830 459 92 868 894 476 894 476 894 476 894 476 894 476 894 476 894 488 829 636 631 806 -446 520 765 5	99 433 776 552 433 776 552 549 415 206 691 588 396 453 390 453 316 453 517 57 57 57 57 57 57 57 57 57 57 57 57 57	773 528 574 00 404 492 3967 1655 399 2300 326 621 543 3157 214 443 350 326 553 447 893 102	6900 46464 4644 4644 4644 4644 4644 4644	-9.1% -10.3% -8.6% -7.6% -7.6% -11.8% -6.8% -5.5% -8.4% -11.7% -9.0% -1.17% -6.4% -1.19% -3.1% -6.3% -1.0% -3.6% -1.0% -3.6% -1.0% -3.6% -1.3% -1.0% -3.6% -1.3% -1.1% -5.3% -1.1% -5.3% -1.1% -1.1% -5.3% -1.1% -1.1% -5.3% -1.1%	594 464 464 464 430 12.011 Number of Students 2001 373 479 436 3942 149 950 197 625 514 153 221 360 371 403 3254 508 605 115 7,559 Number of Students 2001 387 508 485 485 849 792 386 543 752 0 405 505 666	3 2 2 2 8.3 Number Student 2006 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
N-18 N-19 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-6 Q-7 Q-10 Q-11 Q-12 Q-11 Q-17 Q-17 Q-17 Q-17 Q-17 Q-17 D-17 Q-17 D-17 D-17 D-17 D-17 D-17 D-17 D-17 D	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Sae Mue An Tuong Thuong Am Thuong Am Thuong Am Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school) Yen Huong Nang Kha Song Lo 1 Phue Thinh Tan Yen Hung Thanh Dang Chau Dang Chau (Sub school) Name of School Hy Quong T.T. Song Thao Phuong Trung Tieu Son Det Van Lung T.T. Yen Lap Xon Thuong Xon Thuong T.T. Yen Lap Xon Thuong Xon Thuong Xon Thuong Tieu Son Det Xon Log Xon Thuong Tieu Son Co Tiet Am Thuong Xon Thuong Xon Trung Xon	97 624 821 602 620 565 232 888 266 711 669 165 - 380 485 515 515 409 588 645 142 97 517 986 797 986 799 910 738 818 - 521 527 790 593 686 816 816	928 662 697 98 476 830 556 662 791 894 476 830 459 894 894 895 895 895 895 895 895 895 895 895 895	834 597 6655 776655 5527 4155 5249 4155 691 1588 896 691 1588 1599 453 344 116 1664 116 169 896 896 896 896 896 896 896 896 896 8	773 528 574 697 697 697 697 697 697 697 697 697 697	6900 464 464 464 464 464 464 464 464 464 4	-9.13 -10.33 -8.63 -7.63 -8.63 -7.68 -7.67 -5.53 -6.73 -11.73 -1.173 -6.43 -1.173 -6.43 -1.193 -6.33 -1.103 -5.33 -1.103 -5.34 -1.153 -1.153 -3.15 -5.25 Avarage growth rate	594 464 464 464 464 464 464 464 464 464 4	3 2 2 2 8.3 Number 5 8.4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
N-18 N-19 N-20 No. G-1 G-2 G-3 G-5 G-5 G-5 G-7 G-8 G-9 G-17 G-11 G-12 G-17 G-17 S No. I-1 I-2 I-3 I-4 I-5 I-6 I-7 I-8 I-9	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Bac Muc An Tueng Thuong Am Thuong Sen	97 624 821 602 620 565 232 888 266 711 669 165 515 409 588 6455 515 409 97 515 582 350 79 986 789 910 738 818 521 527 790 593 686 816 816 816	928 6622 6697 98 476 690 556 600 556 600 459 277 701 636 636 459 277 448 487 487 488 488 329 636 631 832 636 631 836 636 637 837 838 839 839 839 839 839 839 839	834 433 776 552 549 415 206 691 588 691 588 691 588 1664 116 99 453 384 531 664 116 99 812 62 63 63 63 63 63 63 63 63 63 63	773 528 528 528 528 528 528 528 528	6900 46464 4644 4644 4644 4644 4644 4644	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7.6% -11.7% -9.0% -11.7% -7.1% -6.4% -11.7% -6.4% -1.1% -6.4% -1.9% -3.3% -5.3% -5.3% -5.3% -5.3% -4.6% -7.3% -7.	594 464 464 464 430 12.011 Number of Students 2001 373 373 479 436 342 149 950 197 625 514 153 221 360 3711 403 3254 503 387 505 115 505 849 792 386 485 849 792 386 6486 648	3 2 2 2 8.3 Number Student 2006 6 6 6 8.3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 7 7 8 8 2 2 2 2 2 3 3 3 7 7 8 8 3 3 3 6 6 6 6 6 6 6 6 3 3 3 3 3 3 3
N-18 N-19 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-6 Q-7 Q-10 Q-11 Q-12 Q-11 Q-17 Q-17 Q-17 Q-17 No. I-1 I-2 I-3 I-4 I-5 I-6 I-10 I-11 I-12 I-15 I-11 I-12 I-15 I-16 I-115 I-15 I-16 I-115 I-16 I-15 I-16 I-15 I-16 I-16 I-17	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Bac Muc An Tuong Thuong Am Thuong Am Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school) Yen Huong Nang Kha Song Lo 1 Phue Thinh Tan Yen Hung Thanh Dang Chau Dang Chau Dang Chau Chau Chau Trung Trung Trung Trung Trung Trung Trung Trung Tieu Son Det Van Lung Trung Trung Trung Trung Tieu Son Det Van Lung Trung Tr	97 624 621 602 620 620 620 620 620 630 648 648 649 659 678 649 686 701 707 738 818 645 738 707 738 818 645 726 686 816 816 8214 685 726	928 6622 6697 98 476 6697 98 476 697 98 476 697 98 98 476 697 98 94 452 452 697 98 94 457 448 872 98 667 964 4732 696 697 696 4732 697 697 697 697 697 697 697 697 697 697	834 597 665 99 433 776 552 549 415 206 691 588 159 390 453 388 453 388 453 116 644 557 294 630 857 294 630 857 857 857 857 857 857 857 857 857 857	773 528 574 00 404 447 492 492 492 492 492 492 492 492 492 492	6900 4648 4544 5048 4594 4594 4594 4594 4594 4594 4594 45	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -8.4% -11.7% -9.0% -7.1% -7.1% -7.1% -1.17% -6.4% -1.19% -1.5% -3.6% -1.5% -3.6% -1.5% -4.6% -5.2% Avarage growth rate -6.8% -3.4% -3.4% -3.8% -3.4% -3.8% -3.4% -3.8% -3.4% -3.8% -3.4% -3.1.1.1% -6.1.1% -6.1.1% -1.	594 464 464 430 12,011 Number of Students 2001 373 373 619 479 436 342 149 950 197 625 514 153 221 360 3711 403 254 508 605 515 115 7,559 Number of Students 2001 2387 506 6298 485 792 2386 543 7526 666 6456 648 724 0 0 7537	3 2 2 2 8.3 Number Student 2006 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
N-18 N-19 N-19 N-20 No. Q-1 Q-2 Q-3 Q-4 Q-5 Q-7 Q-6 Q-7 Q-10 Q-11 Q-12 Q-13 Q-14 Q-15 Q-17 Q-17 Q-17 Q-17 Q-17 Q-17 Q-17 Q-17	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Bae Mue An Tuong Thuong Am Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school) Yen Huong Nang Kha Seng Lo 1 Phue Thinh Tan Yen Hung Thanh Dang Chau Dang Chau (Sub school) Name of School Hy Cuong T.T. Song Thao Phuong Trung Tieu Son Det Van Lung T.T. Yen Lap Am Thuong Am Thuong Am Thuong (Sub school) Deng Xuan Trung Nghia Phu Loe Sai Nga Thanh Mieu Vo Mieu 2 Vo Mieu 4 Vo Mieu 5 Vo Mieu 5 Vo Mieu 7 Vo Mieu 7 Vo Mieu 7 Vo Mieu 8 Vo Mieu 8 Vo Mieu 9 V	97 624,8211 602 620 620 620 620 620 620 620 620 620	928 6622 697 98 476 600 556 600 556 600 459 277 701 636 636 459 277 448 329 636 121 98 488 329 636 631 868 631 868 631 868 631 868 631 868 631 831 831 831 831 831 831 831 8	834 433 776 552 549 415 506 515 520 691 588 691 588 691 588 691 588 691 691 691 691 691 691 691 691	773 528 528 528 528 528 528 528 697 492 492 492 492 492 492 492 492	6900 4640 450 450 450 450 450 450 450 450 450 4	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -8.4% -11.7% -7.1% -6.4% -11.7% -6.4% -1.10% -6.3% -1.0% -6.3% -1.10% -3.6% -3.6% -1.11% -3.6% -1.5% -3.6% -1.1.1% -3.6% -1.5% -1.1.1% -5.2% Avarage growth rate -6.8% -3.4% -3.3% -3.7% -3.6% -1.1.1% -5.3% -1.1.1% -5.3% -1.1.1% -5.3% -1.1.1% -5.3% -1.1.1% -5.3% -1.1.1% -	594 464 464 430 12.011 Number of Students 2001 373 619 479 436 342 149 950 197 625 514 153 221 360 371 373 251 403 251 506 371 506 298 849 792 386 543 575 506 666 648 724	3 2 2 2 8.3 Number Student 2006 6.0 Number Student 2006 2 2 4 4 4 5 5 3 3 6 6 6 6 6 3 3 3 2 2 2
N-18 N-19 N-19 N-19 N-19 N-19 N-19 N-19 N-19	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Bac Muc An Tuong Thuong Am Thuong Am Thuong Am (Sub school) Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school) Yen Huong Nang Kha Song Lo 1 Phue Thinh Tan Yen Hung Thanh Dang Chau Dang Chau Dang Chau Chau Chau Trung Trung Trung Trung Trung Trung Trung Trung Tieu Son Det Van Lung Trung Trung Trung Trung Tieu Son Det Van Lung Trung Tr	97 624 621 602 620 620 620 620 620 630 648 648 649 659 678 649 686 701 707 738 818 645 738 707 738 818 645 726 686 816 816 8214 685 726	928 6622 6697 98 476 6697 98 476 697 98 476 697 98 98 476 697 98 94 452 452 697 98 94 457 448 872 98 667 964 4732 696 697 696 4732 697 697 697 697 697 697 697 697 697 697	834 597 665 99 433 776 552 549 415 206 691 588 159 390 453 388 453 388 453 116 644 557 294 630 857 294 630 857 857 857 857 857 857 857 857 857 857	773 528 574 00 404 447 492 492 492 492 492 492 492 492 492 492	6900 4648 4544 5048 4594 4594 4594 4594 4594 4594 4594 45	-9.1% -10.3% -8.6% -7.6% -7.6% -7.6% -9.0% -9.1% -9.0% -11.7% -9.0% -1.17% -9.0% -1.17% -1.19% -3.18% -6.3% -1.0% -3.6% -1.0% -3.6% -1.0% -3.6% -1.0% -3.6% -1.1% -5.2% -4.6% -5.2% -5.2% -7.1% -4.1% -1.4% -3.8% -2.5% -1.1% -4.1% -1.1%	594 4464 4464 430 12,011 Number of Students 2001 373 373 479 436 342 149 950 197 625 514 153 221 360 371 403 3254 508 606 608 485 485 792 2386 543 752 666 648 724 678 7534	3 2 2 2 8.3 Number Student 2006 6 6 6 8.3 3 3 2 2 6 6 6 6 3 3 3 2 2 5 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3
N-18 N-19 N-19 N-19 N-19 N-19 N-19 N-19 N-19	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Bac Muc An Tuong Thuong Am Thuong Am Thuong Am Thuong Am Thuong Am Thuong Cam Thai Binh Son Nam Y La Xuan Quang (Sub school) Yen Huong Nang Kha Song Lo 1 Phuo Thinh Tan Yen Hung Thanh Dang Chau Dang Chau (Sub school) Name of School Hy Cuong T.T. Song Thao Phuong Trung Tieu Son Det Van Lung T.T. Yen Lap * Co Tiet Am Thuong Am Thuong (Sub school) Dong Xuan Trung Nang Thanh Sen Sub School Trung Thanh Dang Tieu Son Det Van Lung Tirung Tieu Son Det Van Lung Trung (Sub school) Dong Xuan Thuong (Sub school) Thanh Mieu Vo Mieu 2 Van Lung Thanh Nan Ngoo Guan Yen Luat Xuan Loc	97 624 821 602 620 620 620 620 620 620 620 620 620	928 6622 6697 98 830 556 600 600 600 600 600 600 600 600 60	834 433 776 597 665 99 433 776 552 240 691 588 159 390 453 388 453 384 453 316 631 631 632 632 640 640 640 640 640 640 640 640 640 640	773 528 574 404 404 447 492 492 492 492 492 492 492 492 492 492	6900 4664 507 Total 507 To	-9.1% -10.3% -8.6% -7.6% Avarage growth rate -11.8% -6.7% -5.5% -8.4% -11.7% -7.1% -6.4% -11.7% -6.4% -1.10% -6.3% -1.0% -6.3% -1.10% -3.6% -3.6% -1.11% -3.6% -1.5% -3.6% -1.1.1% -3.6% -1.5% -1.1.1% -5.2% Avarage growth rate -6.8% -3.4% -3.3% -3.7% -3.6% -1.1.1% -5.3% -1.1.1% -5.3% -1.1.1% -5.3% -1.1.1% -5.3% -1.1.1% -5.3% -1.1.1% -	594 464 464 430 12.011 Number of Students 2001 373 619 479 436 342 149 950 197 625 514 153 221 360 371 373 251 403 251 506 371 506 298 849 792 386 543 575 506 666 648 724	3 2 2 2 8.3 Number Student 2006 6.0 Number 20 6.0 1 1 1 2 2 2 2 2 2 2 3 3 1 1 4 4 2 2 2 2 2 3 3 3 1 1 4 2 2 2 2 3 3 3 1 1 4 2 2 2 2 3 3 3 1 1 4 2 2 2 2 3 3 3 1 1 1 2 2 2 2 3 3 3 1 1 1 2 2 2 3 3 3 1 1 1 2 2 2 3 3 3 3
N-18 N-19 N-19 N-19 N-19 N-19 N-19 N-19 N-19	Ha Chau Lau Thuong * Name of School Thi Tran Vinh Loe Bae Mue An Tuong Thuong Am Thuong Am Thuong Am Thuong Am Thoon School Phan Thiet Thai Binh Son Nam Y La Xuan Quang (Sub school) Yen Huong Nang Kha Song Lo 1 Phue Thinh Tan Yen Hung Thanh Dang Chau Dang Chau (Sub school) Name of School Hy Cuong T.T. Song Thao Phuong Trung Tieu Son Det Van Lung T.T. Yen Lap * Co Tiet Am Thuong (Sub school) Dong Xuan Trung Nghia Phu Loo Sai Nga Thanh Mieu Vo Mieu 2 Vo Mieu 1 Nace Quan Yen Luat Xuan Loe Ha Thach *	97 624 821 602 620 620 620 620 620 620 620 620 620	928 6622 6697 98 830 556 600 600 600 600 600 600 600 600 60	834 433 776 597 665 99 433 776 552 240 691 588 159 390 453 388 453 384 453 316 631 631 632 632 640 640 640 640 640 640 640 640 640 640	773 528 574 404 404 447 492 492 492 492 492 492 492 492 492 492	6900 46464 507 Total 507 Total 507 Total 619 479 436 619 479 436 619 514 619 619 619 619 619 619 619 619 619 619	-9.1% -10.3% -8.6% -7.6% -7.6% -7.6% -9.0% -9.1% -9.0% -11.7% -9.0% -1.17% -9.0% -1.17% -1.19% -3.18% -6.3% -1.0% -3.6% -1.0% -3.6% -1.0% -3.6% -1.0% -3.6% -1.1% -5.2% -4.6% -5.2% -5.2% -7.1% -4.1% -1.4% -3.8% -2.5% -1.1% -4.1% -1.1%	594 464 464 464 430 12.011 Number of Students 2001 373 619 479 436 342 149 950 197 625 5114 153 221 360 371 303 254 508 605 115 7,559 Number of Students 2001 387 508 485 485 486 543 752 0 405 505 505 666 648 724 0 537 534	3 2 2 2 8.3 Number Student 2006 6 6 6 8.3 3 3 2 2 6 6 6 6 3 3 3 2 2 5 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3 8.3

2) Plans for Integrating "Sub Schools" into "Main Schools"

Many of the "main" schools in the Project also have "sub" schools, and some of these Project schools have plans to integrate their "sub" schools with the "main" schools after Project completion. However, when this would happen and other detailed plans are not clear. Also, the Site Survey Team could not determine whether or not the students at those "sub" schools would even be able to actually attend the "main" schools after integration, because those "sub" schools were not included in the survey schedule.

So, for only those schools which have a firm plan to integrate their "sub" schools into the "main" school will the total number of both "main" and "sub" school students be used to calculate the number of classroom shortages for the Project. The one school that is expected to integrate with its main school is as follows: the new construction site for PT-20(main school) will be located much closer to PT-20s(sub school); and so the students presently attending the "sub" school PT-20s will be able to attend the "main" school PT-20. So the "sub" school PT-20s, will be eliminated from the Project.

3) The Number of Students Calculate the Necessary Number of Classrooms It has been confirmed that the school enrollment rate in the Project Area is almost 100%. Thus, the present number of students will be the starting basis to calculate the projected number of students in the year 2006(described in 2-7).

4) Method for Calculating "Usable" Classrooms

a) "Usable" Classrooms

Among all the existing classrooms, those that are in a good enough condition to be utilized are regarded as "usable" classrooms. Most of the existing school buildings are made of either brick or wood, and were built using low quality building materials and generally poor local construction methods; and even though some buildings are only several years old, many sections of some of these buildings are deteriorating or are badly damaged, the extent of the deterioration depending on how well and how often each building was maintained. In the midst of severe classroom shortages, each school does its own repair work to keep the classrooms "usable." Thus, some damage, the classrooms in the brick buildings will be counted as "usable" classrooms. On the other hand, most of the temporary wood buildings have walls made of mud and there are no windows or

doors and the interior conditions are very poor; and so are regarded as too difficult to repair. Thus, classrooms in the wooden buildings will be regarded as "unusable" classrooms.

b) "Satisfactory" and "Unsatisfactory" Classrooms

Some of the "usable" classrooms do not meet certain standards of MOET and will be treated as follows:

According to the "Regulations for Primary Education" of MOET and the "Design Standards" of the Ministry of Construction, one classroom cannot have more than the maximum number of 35 students, and must have a minimum space of not less than 1.2 m² per student. Under these guidelines, a "usable" classroom that has a minimum area of 42 square meters will be deemed "satisfactory" and can be counted as one classroom. A classroom that does not fall within these parameters will be deemed "unsatisfactory" and cannot be counted as one classroom. But, by applying the following equation index calculation, the number of classrooms can be adjusted to allow for more classroom construction:

5) Method for Calculating the Number of Classroom Shortages

This figure is less than the maximum number of 35 students per classroom as stipulated by the standards. The reason for this low average is that rather than trying to cram more than 35 students in one classroom to solve the classroom shortages, most of the Project schools choose to conduct classes in double shifts or rent additional rooms for class use. Also, there is an average of 1.2 teachers per classroom which means that there is no shortage of teachers. At present, Vietnam has a plan to introduce a full day schooling to almost all of the primary schools by 2010, therefore the calculation of the number of classroom shortages shall be based on 35 students in one classroom under the premise of the full day schooling. The formula for calculation is:

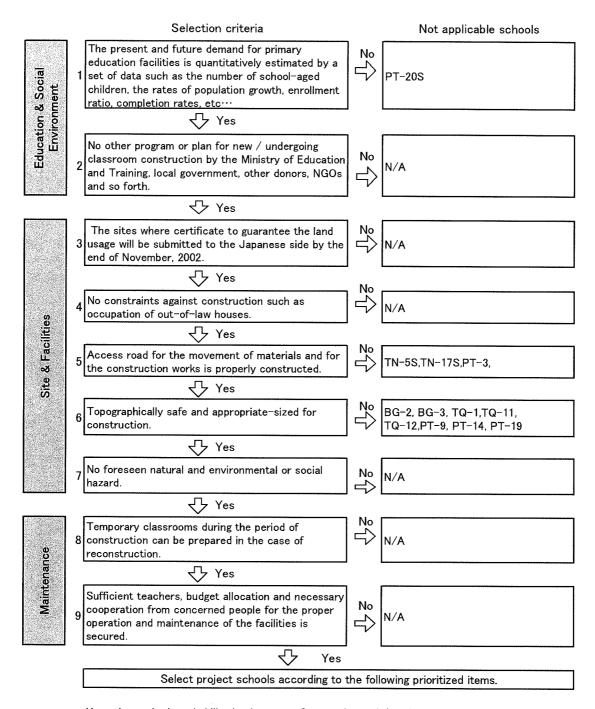
Number of students in 2006 (projected figure)÷35

- number of usable classrooms

(3) Selection of Project Schools

The selecting of the Project schools, conducted in accordance with the criteria that was agreed upon by both the Vietnamese and Japanese sides as recorded in the Minutes of Discussions, is shown in Fig. 2-2. Schools eliminated from the Project and the reasons for elimination are listed in Table 2-2.

Six of the schools that aid was requested for, located in the central and river basin areas of Tuyen Quang province and a part of Phu Tho province, are subject to serious flooding where the water levels often rise above the building ground floor level. It was evaluated that construction of school buildings in these areas would be possible as long as special safety measures against floods were provided. Thus, these schools were included in the Project



- A Urgently needs the rehabilitation because of over aging and / or damage of the existing buildings (i.e. temporary classrooms).
- B Urgently needs the construction of additional classrooms due to overcrowding.

Deciding criteria for over aging and not usable building.

1 Wooden temporary building not having windows and / or doors.

Figure 2-2 Selecting of the Project schools accordance with the criteria

Table 2-2 Schools Eliminated from the Project based on the Selection Criteria and Reasons for Elimination

School No.	School Name	Reason for Elimination from the Project				
Bac Giang Pr	ovince					
BG-2	Phi Dien	The site is located in a rice field and a large amount of land preparation work is required to construct a new building.				
BG-3	Dong Hung 2	The site is located in a rice field and a large amount of land preparation work is required to construct a new building.				
Thai Nguyen	Province					
TN-5s	Phu Lac (Sub School)	The existing final access road is app reach approximately 5km long and only 2.5m wide unpaved road. Construction vehicle cannot reach the site.				
TN-17s	The existing final access road is app reach approximately 1km long and only 2.5m wide unpaved road. Construction vehicle cannot reach the site.					
Tuyen Quang	Province					
TQ-1 Thi Tran		The school site is planned at a new location in a rice field. The land is 2.5m lower than the constructing road. An extensive amount of land reclamation costs would required to construct a building there. In addition, high voltage power lines pass over the land.				
TQ-11	Yen Huong	Extensive slope cut work is planned at the school site and a high cliff may be created.				
TQ-12	Nang Kha	Land behind the school site is a cliff and is dangerous. Access to the school site is by crossing a suspension bridge (allowable load limit is 2 tons). Material transportation by ferry may be possible, but it would be very expensive.				
Phu Tho Prov	vince					
PT-3	Phuong Trung	Available access to the site is a newly constructed embankment. It is unpaved and approximately 11km long. Its 8km section is not usable during rainy season.				
PT-9s	Am Thuong (Sub school)	The school site is a new location. At present, the site is a lotus pond. Extensive land reclamation costs would be required to construct a school building.				
PT-14	Thanh Mieu	The school site is presently used as a rice field. A large amount of land reclamation costs would be needed to construct a school building.				
PT-19	Xuan Loc	The school site is a new land that was a rice field. The land is approximately 1m lower than the front road. The ground is soft and is inundated every year by floods. The flood level becomes 1.2m higher than the front road.				
PT-20s	Ha Thach	This school (PT-20s) is a sub school and will be integrated into the main school. Present students will go to the main school.				

Except for the above schools, the actual number of classrooms to be built at the remaining 77 schools is the total number of classroom shortages that were calculated in accordance with the methods mentioned in paragraph 2-2-1 (2). However, out of the original schools that aid was requested for, those schools with only one or two classroom shortage were eliminated from the Project. These schools are expected to construct any necessary classrooms by their own effort to help themselves. The number of classroom shortages at each school and the schools that were eliminated from the Project are listed in Table 2-3. The schools that were selected for the Project are listed in Table 2-4.

Table 2-3 List of the Schools Eliminated from the Project (29schools / 89 candidate schools)

	Scho	ol ID	School Name	Number of existing class- rooms	of	Adjustment	Number of usable classrooms after adjustment	Number of students (2006)	Number of necessary class- rooms	Number of class- rooms in shortage
	Bac Giang Province									
1	BG-	1s	An Chau (Sub School)	2	0		0.0	40	1.14	2
2	BG-	6	Viet Lap	16	16		16.0	556	15.89	-1
3	BG-	10	Nam Hong	12	12		12.0	442	12.63	1
4	BG-	12	Hong Ky	11	11	-1.1	9.9	334	9.54	-1
5	BG-	14	Dai Lam	10	10		10.0	409	11.69	2
6	BG-	14s	Dai Lam (Sub School)	4	4		4.0	107	3.06	-1
	Thai N	Nguye	n Province							
1	TN-	1	La Hien	12	12		12.0	376	10.74	-2
2	TN-	7	Thanh Ninh	13	13	-1.6	11.5	325	9.29	-3
3	TN-	13	Van Yen	23	23		23.0	712	20.34	-3
4	TN-	15	Luong Son	11	11		11.0	211	6.03	-5
5	TN-	16	Hong Tien	10	10	-0.2	9.8	351	10.03	1
6	TN-	18	Yen Ninh	13	13	-1.9	11.1	368	10.51	-1
7	TN-	20	Lau Thuong	10	10	-1.2	8.8	274	7.83	-2
	Tuyer	n Qua	ng Province							
1	TQ-	4	An Tuong	11	11		11.0	281	8.03	-3
2	TQ-	5	Thuong Am	8	6	-0.4	5.6	184	5.26	-1
3	TQ-	9	Y La	15	15	-0.3	14.8	369	10.54	-5
4	TQ-	13	Song Lo 1	12	12		12.0	269	7.69	-5
5	TQ-	15	Tan Yen	9	9		9.0	142	4.06	-5
6	TQ-	16	Hung Thanh	12	12		12.0	424	12.11	1
7	TQ-	17	Dang Chau	22	20		20.0	560	16.00	-4
	Phu T	ho P	rovince							
1	PT-	1	Hy Cuong	12	12	-0.4	11.6	272	7.8	-4
2	PT-	2	T.T. Song Thao	13	13		13.0	426	12.17	-1
3	PT-	7	T.T. Yen Lap	11	11		11.0	286	8.17	-3
4	PT-	9	Am Thuong	10	10		10.0	271	7.74	-3
5	PT-	12	Phu Loc	18	18		18.0	541	15.46	-3
6	PT-	13	Sai Nga	11	11	-0.5	10.5	329	9.40	-2
7	PT-	15s	Vo Mieu 2 (SubSchool)	3	3		3.0	93	2.66	-1
8	PT-	17	Ngoc Quan	11	11	-0.9	10.1	366	10.46	1
9	PT-	18	Yen Luat	7	7		7.0	251	7.17	1

Table 2-4 List of Project Schools (48schools / 89 candidate schools)

	School ID		School Name	Number of existing class- rooms	Numbe r of usable class- rooms	Adjustment	Number of usable classrooms after adjustment	Number of students (2006)	Number of necessary class- rooms	Number of class- rooms in lack	Planned number of class- rooms
	Bac C	iang	Province						799.3		
1	BG-	13	Yen Son	11	11	-0.6	10.4	1,030	29.43	20	20
2	BG-	4	Cau Go	6	6		6.0	787	22.49	17	12*
3	BG-	19	Ninh Son	4	4	-1.4	2.6	617	17.63	16	16
4	BG-	16	Hop Thinh	4	4	-0.8	3.2	604	17.26	15	15
5	BG-	8	Dong Lo 2	3	3		3.0	592	16.91	14	14
6	BG-	1	An Chau	0	0		0.0	411	11.74	12	12
7	BG-	15	Kien Lao	8	8	-0.4	7.6	647	18.49	11	11
8	BG-	11	Ngoc Thien 1	13	13		13.0	803	22.94	10	10
9	BG-	5	Му На	8	8	-0.4	7.6	566	16.17	9	9
10	BG-	8s	Dong Lo 2 (Sub School) (New Site)	0	0		0.0	263	7.51	8	8
11	BG-	7	Tri Yen	10	10		10.0	595	17.00	7	7
12	BG-	17	Thanh Lam	3	3	-0.9	2.1	270	7.71	6	6
13	BG-	9	Hong Thai	10	10		10.0	527	15.06	6	6
14	BG-	18	Dong Viet	8	8		8.0	437	12.49	5	5
15	BG-	20	Yen Dinh	9	9	-1.2	7.8	398	11.37	4	4
16	BG-	2s	Phi Dien (Sub School)	1	0		0.0	85	2.43	3	3
								Province Total		163	158
	Thai N	lguve	n Province					TOTAL			
1	TN-		Linh Son	0	0	50000000000000000000000000000000000000	0.0	499	14.26	15	15
2	TN-	9	Doi Can	13	13		13.0	935	26.71	14	14
3	TN-	11	Yen Trach 1	8	0		0.0	392	11.20	12	12
4	TN-	5	Phu Lac	6	6		6.0	537	15.34	10	10
5	TN-	2	Trung Hoi	11	0		0.0	274	7.83	8	8
6	TN-	19	Ha Chau	0	0		0.0	270	7.71	8	8
7	TN-	4	Thi Tran Du	10	10		10.0	623	17.80	8	8
8	TN-	6	Tan Huong	4	4		4.0	373	10.66	7	7
9	TN-	3	Nam Hoa 1	12	8		8.0	450	12.86	5	5
10	TN-	14	Tan Phu	8	8	-1.9	6.1	381	10.89	5	5
11	TN-	8	Ba Xuyen	2	2		2.0	189	5.40	4	4
12	TN-	10	Bao Cuong	12	4		4.0	266	7.60	4	4
13	TN-	17	Binh Thanh	6	2	-0.2	1.8	159	4.54	3	3
14	TN-	16s	Hong Tien (Sub School)	4	4	-0.3	3.7	226	6.46	3	3
L								Province		_	

	Scho	ol ID	School Name	Number of existing classroo ms	Numbe r of usable classro oms	Adjustment	Number of usable classrooms after adjustment	Number of students (2006)	Number of necessary class- rooms	Number of class- rooms in lack	Planned number of class- rooms
	Tuyer	ı Qua	ing Province								
1	TQ-	6	Phan Thiet	18	18		18.0	1,035	29.57	12	12
2	TQ-	3	Bac Muc	0	0		0.0	362	10.34	11	11
3	TQ-	8	Son Nam	9	9		9.0	534	15.26	7	7
4	TQ-	14	Phuc Thinh	7	4		4.0	308	8.80	5	5
5	TQ-	2	Vinh Loc	14	8		8.0	438	12.51	5	5
6	TQ-	10s	Xuan Quang (Sub School)	5	0		0.0	138	3.94	4	4
7	TQ-	7	Thai Binh	0	0		0,0	137	3.91	4	4
8	TQ-	5s	Thuong Am (Sub School)	4	0		0.0	94	2.69	3	3
9	TQ-	17s	Dang Chau (Sub School)	1	0		0.0	91	2.60	3	3
								Province Total		54	54
	Phu T	ho P	rovince					Total			
1	PT-	20	Ha Thach	0	0		0.0	848	24.23	25	25
2	PT-	5	Det	8	8		8.0	704	20,11	13	13
3	PT-	8	Co Tiet	0	0		0.0	372	10.63	11	11
4	PT-	6	Van Lung	13	13		13.0	802	22.91	10	10
5	РТ-	10	Dong Xuan(New Site)	0	0		0.0	299	8.54	9	9
6	PT-	4	Tieu Son	10	4	-0.8	3.2	304	8.69	6	6
7	PT-	11	Trung Nghia	9	9		9.0	480	13.71	5	5
8	PT-	15	Vo Mieu 2	14	14		14.0	625	17.86	4	4
9	PT-	16	Thanh Van	9	9		9.0	396	11.31	3	3
								Province Total		86	86
								Grand Total		409	404

^{*}Site of BG-4 is small therefore only 12 classrooms are planned.

(4) Scale Setup for the Project

1) Policies Regarding the Scale of the Project

The scale of the Project shall be decided on the basis of what best meets the construction schedules and the amount of available budgetary funding.

2) Determination of Other Facilities and Equipment

1. Other Facilities

Facilities other than classrooms, which were requested by the Vietnamese side, are principal's rooms, sanitary facilities, teaching aid rooms, teachers' rooms and waste treatment facilities. During the site survey, the Study Team confirmed that many Project schools already have rooms for the principals and teachers, although the room sizes and functions varied from school to school. For this reason, only those Project schools that do not have principal's rooms and teaching aid rooms shall be provided with them. However, there is one school which cannot build all the necessary classrooms and a teaching aid room because of the size and shape of the school site. In the case of this school, the maximum number of classrooms will be planned. In reference to teachers' rooms, the Study Team observed that some of these rooms were used for resting and teacher meetings. Because of this, it is deemed that teachers' rooms will not be exclusively used for teacher schoolwork (class prep, grading tests, etc), and so these rooms will not be constructed by the Project.

In reference to waste treatment facilities, most Project schools already have their own garbage incinerators on the school grounds. Also, as there didn't seem to be any other problem with the situation the way it is, the Project will not provide waste treatment facilities.

a) Principal's Rooms

According to the Design Standards of Vietnam, a principal's room should be 15 to 18 m².

But, as the principal's room will also used as an administrative office, the size should be a little larger, i.e. one half of the size of a classroom or approximately 21 m^2 .

b) Teaching Aid Rooms

Teaching aid rooms shall be planned not only for storing teaching materials and text books, but also for holding teachers meetings. As a space of 9 to 12 m^2 is required for storing teaching aid materials and text books, one half the size of a classroom(approximately 21 m^2), plus a meeting space for about 8 people (approximately 12 m^2) will be provided for teaching aid rooms by the Project.

c) Sanitary Facilities

More than one half of the surveyed Project schools have toilets. But, most of them are simple outdoor-type toilets without treatment capabilities and are enclosed only with low fences. The average number of toilets is one or two per school. According to the Design Standards of Vietnam, one urinal and one toilet bowl should be installed per 40 students. There is a big gap between the standards and the reality. To improve this situation, toilets shall be installed at all the Project schools. But, as an enormous number of toilet booths and urinals would be required to meet the needs of all the students at the Project schools, only the toilets for those numbers of students who can be accommodated in the new Project classrooms will be provided by the Project. The number of toilet booths and urinals to be provided by the Project are listed in Table 2-5.

Table 2-5 Sanitary Facilities to be Provided by the Project

Number of Classrooms	3 ~ 4	5 ~ 6	7~9	10 ~ 11	12 ~ 13	14 ~ 16	17 ~ 18	19 ~ 20	25
Urinals for Males	2	3	4	5	6	7	8	9	11
Toilet Booths for Males	2	3	4	5	6	7	8	9	11
Urinals for Females	2	3	4	5	6	7	8	9	11
Toilet Booths for Females	2	3	4	5	6	7	8	9	11
Wash Basins for Males and Females	2	2	3	4	4	5	6	6	8

Both the urinals for males and the urinals for females shall be the ditch type, with the sizes to be decided by the layout of each sanitary facility. The number of wash basins was calculated on the "maximum number of students" in the new classrooms, and the type of building that the new classrooms will be constructed in.

2. Equipment Plan

Equipment requested by the Vietnamese side was furniture and teaching aids.

a) Furniture

Furniture provided by the Project will be based on the facility components constructed by the Project, but basically they are desks and chairs for students and teachers, storage shelves and blackboards.

As a basic principle, wooden furniture should be selected by referring to the furniture specifications as provided in Phase I of the Project, with additional improvements in weight and durability. There is a custom in Vietnam for students in a full day schooling to take naps in their classrooms after lunch. Thus, the desks shall be the flat & level type for the students to nap. Blackboards should have the steel face in some part, where magnetic items can be quickly affixed to them.

Table 2-6 Educational Furniture for Each Room

Name of Room	Name of Item	Units per room
Classroom	Student's two-seater desk	18
	Student's chair	36
	Teacher's desk	1
	Teacher's chair	1
	Blackboard	1
Principal's room	Principal's desk	1
_	Principal's chair	1
	Storage shelf	3
	Blackboard	1
Teaching aid room	Storage shelf	7
	Meeting table (for two	4
	persons)	8
	Teacher's chair	1
	Blackboard	

b) Teaching Aids

A new curriculum was introduced to first graders in the school year of 2002, and a new curricula for second graders will be introduced in the 2003 school

year. The introduction of new curricula to all grades will be completed by 2006. In accordance with the introduction of these new curricula, teaching aids are also being changed. Presently, a list of teaching aids for the new first and second grade curricula have been prepared. The teaching aid lists for the third through the fifth grades has not yet been prepared (A list for the second grade was completed in March 2003. It is not known when the lists for the third through the fifth grades will be completed, though. Also, the detailed contents of those lists are not yet known). Thus, the providing of teaching aids based on the new curricula is considered irrelevant.

Presently, the teaching aids used with the existing (old) curriculum are supplied by the Department of Education and Training (hereinafter DOET) through the Bureau of Education and Training (hereinafter BOET) after a request describing the types and quantities of equipment is submitted from each school. In fact, the Study Team learned that most of the schools conducting workshops possessed teaching aids based on the present curriculum. If the present teaching aids are adequately managed and shared by the teachers, it is considered that there won't be any shortages of teaching aids until 2006. Thus, provision of additional teaching aids for the present curricula is considered unnecessary. Further, since a system for the supplying of teaching aids has already been established, teaching aids will not be provided by the Project. This is based on the viewpoint that further improvements in the present system should be carried out through the country's own self-help efforts.

3) Facility Components

a) Electrical Facilities

For Project schools that are already equipped with electrical facilities, the Project will provide lighting fixtures for fluorescent tubes and ceiling fans for the classroom buildings and lighting fixtures for fluorescent tubes for the sanitary facilities. For the three Project schools that are not equipped with electrical facilities, only electrical wire conduits will be installed on the premise that electric power will be supplied to them in the future. In addition, lightning rods will be installed to all new classroom buildings constructed by the Project.

b) Water Supply Facilities

Most Project schools have water sources on or near the school grounds. They

are mainly shallow water wells that were constructed by each school. Among the facilities provided by the Project, only the sanitary facilities will use water. As it is possible for the Vietnamese side itself to connect water supply lines to the existing wells etc. to obtain water source, a water supply facility will not be provided by the Project.

c) Drainage Facilities

Most Project schools do not have any drainage facilities. Thus, rainwater should either be allowed to seep into the school grounds or be discharged into the nearby drainage ditches. Simple filtration-type septic tanks shall be installed to treat and drain the sewage from the toilets. Following figure shows water supply and sewerage system.

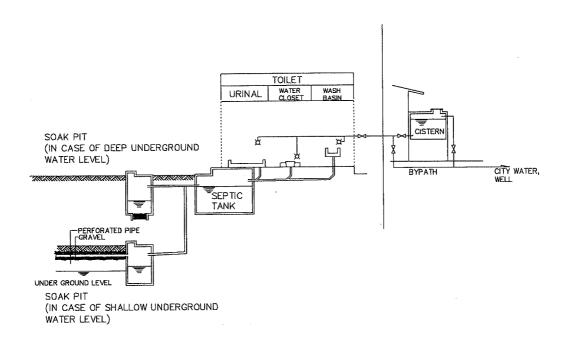


Figure 2-3 Water Supply and Sewerage System Diagram

4) Project Facility Types and Components

Of the number of classrooms that will be provided to one school, three is the minimum, and 25 is the maximum. To efficiently construct a different number of classrooms at the various Project schools, various types of school buildings shall be planned, and then depending on the number of classroom shortages, site conditions and other restrictions at each Project school, the most suitable building type should be selected. The following building types are being considered:

Classroom Buildings:

<u>Bui</u>	lding Type	Type Symbol
1.	One-storied Building of 2 Classrooms:	2C
2.	One-storied Building of 3 Classrooms:	3C
3.	One-storied Building of 4 Classrooms:	4 C
4 .	One-storied Building of 5 Classrooms:	5C
5 .	One-storied Building of 6 Classrooms:	6C
6 .	Two-storied Building of 5 Classrooms:	2-5C
7.	Two-storied Building of 6 Classrooms:	2-6C
8.	Two-storied Building of 7 Classrooms:	2-7C
9.	Two-storied Building of 8 Classrooms:	2-8C
10.	Two-storied Building of 9 Classrooms:	2-9C
11.	Two-storied Building of 10 Classrooms:	2-10C
12.	Two-storied Building of 11 Classrooms:	2-11C
13.	Two-storied Building of 12 Classrooms:	2-12C

A classroom building having a principal's room and/or a teaching aid room should be designated by adding +P or +T to the above symbol.

Sanitary Facilities:

Building Type	Type Symbol
1. Two Booths each for males and females:	S
${\bf 2.\ Three\ Booths\ each\ for\ males\ and\ females:}$	M
3. Four Booths each for males and females:	L
4. Five Booths each for males and females:	XL
5. Six Booths each for males and females:	XXL

Facility components of each Project school are listed in the following table:

Table 2-7 Facility components of each Project School

			Planned	Deises en l'e	T				Floor	
Sch	(I) loo	School Name	number of class- rooms	Principal's room	Aid room	Building Type	Toilet Type	School Area(m)	Classroom Buildings(m)	Toilet Buildings(n
First	Stag	e								
		rovince								
BG-	1	An Chau	12	1	1	2C+T+P, 2-10C	XXL	715.84	649.24	66.60
BG-	2s	Phi Dien (Sub School)	3			3C	S	160.84	127.68	33.16
BG-	4	Cau Go	12			2-12C	XXL	712.86	646.26	66.60
BG-	5	My Ha	9			3C, 2-6C	L	486.28	436.40	49.88
BG-	7	Tri Yen	7			3C, 4C	L	347.80	297.92	49.88
BG-	8	Dong Lo 2	14			2-6C, 2-8C	M, L	830.17	738.77	91.40
BG-	8s 9	Dong Lo 2 (Sub School) (New Site)	8			3C, 5C	L	390.36	340.48	49.88
BG-	-	Hong Tha	6			2-6C	М	350.24	308.72	41.52
	11	Ngoc Thien 1 Yen Son	10			2-10G	XL	579.80	521.56	58.24
BG-	13		20			2-6C, 2-6C, 2-8C	L,XL	1,155.61	1,047.49	108.12
	15	Kien Lao	11			3C, 2-8C	XL	615.97	557.73	58.24
BG-	16	Hop Thinh	15		1	5C+T, 2-10C	M, L	847.04	755.64	91.40
BG-	17	Thanh Lam	6	1	1	2-6C+T+P	М	393.94	352.42	41.52
BG-	18	Dong Viet	5			5C	М	254.32	212.80	41.52
BG-	19	Ninh Son	16	1	1	3C, 5C, 6C, 2C+T+P	M, L	814.92	723.52	91.40
BG-	20	Yen Dinh	4		11/2 / / / /	4C	S	203.40	170.24	33.16
Total(16Schools	158	3	4	DESCRIPTION	THE SECTION OF THE PARTY OF THE	8,804.89	7,832,37	972,52
	nd Sta									
Thai N	guyen 2	Province Trung Hoi	8	1		2 20 T.D		500.05		
TN-	3	Nam Hoa 1	5	- '	1	2-8C+T+P	L	523.63	473.75	49.88
TN-	4	Thi Tran Du	8		1	5C+T	М .	275.60	234.08	41.52
TN-	5	Phu Lac				2-8C	L	479.93	430.05	49.88
TN-	6		10 7	1	1	2-10C+T+P	XL.	619.39	561.15	58.24
TN-	8	Tan Huong			1	3C, 4C+T	L	369.08	319.20	49.88
TN-	9	Ba Xuyen	4	1	1	4C+T+P	S	245.96	212.80	33.16
TN-	10	Doi Can	14	1	-1	5C, 6C, 3C+T+P	M, L	729.80	638.40	91.40
	-	Bao Cuong	4		1	4C+T	S	224.68	191.52	33.16
TN-	11	Yen Trach 1	12	1	1	2C+T+P, 2-10C	XXL	715.84	649.24	66.60
TN-	12	Linh Son	15	1	1	2-5G+T+P, 2-10G	M, L	921.68	830.28	91.40
TN-	14	Tan Phu	5		1	5C+T	М	275.60	234.08	41.52
TN-	16s	Hong Tien (Sub School)	3			3C	S	160.84	127.68	33.16
TN-	17	Binh Thanh	3	1	1	3C+T+P	S	203.40	170.24	33.16
TN-	19	Ha Chau	8	1	1	2-8C+T+P	L	523,63	473.75	49.88
	Stage :		106	8	12		see to the little beauty	6,269.06	5,546.22	722.84
	Stag									
TQ-	Quang 2	Vinh Loc	5		1	5C+T	М	275.60	004.00	44.50
TQ-	3	Bac Muc	11	1	1				234.08	41.52
TQ-	5s	Thuong Am (Sub School)	3			2-11C+T+P 3G	XL s	704.50	646.26	58.24
TQ-	6	Phan Thiet	12			2-6C, 2-6C	S XXL	160.84	127.68	33.16
TQ-	7	Thai Binh	4	1	1	2-6C, 2-6C 4C+T+P	S	684.04 245.96	617.44	66.60
TQ-	8	Son Nam	7	,		3C, 4C	L	347.80	212.80	33.16
TQ-	10s	Xuan Quang (Sub School)	4			4C			297.92	49.88
TQ-		Phue Thinh	5			5C	S	203.40	170.24	33.16
TQ-		Dang Chau (Sub School)	3			3C	M S	254.32 160.84	212,80 127.68	41.52
	e Total		54	2	3	30	0	3,037.30	127.68 2,646.90	33.16
			5.7	-	3	1 1 1		3,037,30	2,046.90	390.40
	no P					6C	M	296.88	255.36	41.52
	no Pro		6				1/1	230.00	200.30	41.52
Phu T		Tieu Son	6	1	,	3C+T+P 2-10C	XXI	759.40	691 90	66.60
Phu T PT- PT-	4	Tieu Son Det	13	1	1	3C+T+P, 2-10C	XXL	758,40 579.80	691.80 521.56	66.60 58.24
Phu T PT- PT- PT-	4 5 6	Tieu Son Det Van Lung	13			2-10C	XL	579.80	521.56	58.24
Phu T PT- PT- PT-	4 5 6 8	Tieu Son Det Van Lung Co Tiet	13 10 11	1	1	2-10C 2-11C+T+P	XL XL	579.80 704.50	521.56 646.26	58.24 58.24
Phu T PT- PT- PT- PT-	4 5 6 8 10	Tieu Son Det Van Lung Co Tiet Dong Xuan(New Site)	13 10 11 9			2-10G 2-11G+T+P 2-9G+T+P	XL XL L	579.80 704.50 571.44	521.56 646.26 521.56	58.24 58.24 49.88
Phu T PT- PT- PT- PT- PT-	4 5 6 8 10	Tieu Son Det Van Lung Co Tiet Dong Xuan(New Site) Trung Nghia	13 10 11 9 5	1	1	2-10C 2-11C+T+P 2-9C+T+P 5C	XL XL L M	579.80 704.50 571.44 254.32	521.56 646.26 521.56 212.80	58.24 58.24 49.88 41.52
Phu T PT- PT- PT- PT- PT- PT-	4 5 6 8 10 11	Tieu Son Det Van Lung Co Tiet Dong Xuan(New Site) Trung Nghia Vo Mieu 2	13 10 11 9 5 4	1	1	2-10C 2-11C+T+P 2-9C+T+P 5C 4C	XL XL L M	579.80 704.50 571.44 254.32 203.40	521.56 646.26 521.56 212.80 170.24	58.24 58.24 49.88 41.52 33.16
Phu T PT- PT- PT- PT- PT- PT- PT-	4 5 6 8 10 11 15	Tieu Son Det Van Lung Co Tiet Dong Xuan(New Site) Trung Nghia Vo Mieu 2 Thanh Van	13 10 11 9 5 4 3	1	1	2=10C 2=11C+T+P 2=9C+T+P 5C 4C 3C	XL XL L M S	579.80 704.50 571.44 254.32 203.40 160.84	521.56 646.26 521.56 212.80 170.24 127.68	58.24 58.24 49.88 41.52 33.16 33.16
Phu T PT- PT- PT- PT- PT- PT- PT- PT-	4 5 6 8 10 11 15 16 20	Tieu Son Det Van Lung Co Tiet Dong Xuan(New Site) Trung Nghia Vo Mieu 2 Thanh Van Ha Thach	13 10 11 9 5 4 3 25	1 1	1 1	2-10C 2-11C+T+P 2-9C+T+P 5C 4C	XL XL L M	579.80 704.50 571.44 254.32 203.40 160.84 1,509.87	521.56 646.26 521.56 212.80 170.24 127.68 1,385.03	58.24 58.24 49.88 41.52 33.16 33.16
Phu T PT- PT- PT- PT- PT- PT- PT- PT-	4 5 6 8 10 11 15 16 20	Tieu Son Det Van Lung Co Tiet Dong Xuan(New Site) Trung Nghia Vo Mieu 2 Thanh Van	13 10 11 9 5 4 3	1	1	2=10C 2=11C+T+P 2=9C+T+P 5C 4C 3C	XL XL L M S	579.80 704.50 571.44 254.32 203.40 160.84	521.56 646.26 521.56 212.80 170.24 127.68	58.24 58.24 49.88 41.52 33.16 33.16

2-2-2 School Sites and Facility Layout Plans

As the conditions of each construction site vary from school to school, the most suitable facility layout plan should be prepared for each Project school, taking the natural conditions, site conditions, infrastructure installation conditions and the existing school facility arrangements into consideration. The main policies regarding the facility layout plans are as follows:

- 1) The layout of the new buildings shall be planned so that they will harmonize with the overall school site and the surrounding buildings;
- 2) The new school buildings shall be arranged on flat land as much as possible avoiding slopes and cliffs for ease of securing school site safety, and for minimizing the foundation work and lighten the burden of the land preparation work to be borne by the Vietnamese side;
- 3) The classroom buildings shall be laid out with sufficient clearance between them, and in such a way as to allow the wind to provide as much natural ventilation as possible by taking the predominant wind direction into account. Also, the sun direction shall be taken into account for the purposes of lessening the exposure to sunlight from the west;
- 4) For schools located in flood prone areas, the construction ground levels and building floor levels shall be carefully considered to avoid possible flooding;
- 5) Toilets shall be constructed in an independent building detached from the classroom buildings. The toilet buildings shall be located at a place where neither odor nor environmental problems will affect other facilities on the school grounds.

2-2-2-3 Architectural Plans and Designs

(1) Floor Plans

To best take advantage of the wind for natural ventilation and the sun for natural light going into the rooms, a single-loaded corridor shall be incorporated in the floor plans of the buildings. According to the Design Standards of Vietnam, the corridor widths shall be 1.8m. These standards shall be applied to both single-storied buildings as well as two-storied buildings. The Project will also provide, depending upon the number of classrooms, one or two stairways in each two-storied building.

1) Classrooms

Based on the Design Standards of Vietnam and on consideration of the space necessary for the comfortable placement of furniture(desks), the basic size of all classrooms shall be set at

 $7.6m \times 5.6m = 42.56 \text{ m}^2$.

2) Principal's Rooms

The construction of the principal's rooms shall use the same sized structural unit modules that are used for the classrooms, and shall be one half the size of a classroom: $3.8m \times 5.6m = 21.28 \text{ m}^2$.

3) Teaching Aid Rooms

The construction of the teaching aid rooms shall use the same sized structural unit modules that are used for the classrooms, and shall be one half the size of a classroom: $3.8m \times 5.6m = 21.28 \text{ m}^2$.

4) Sanitary Facilities

From the viewpoint of avoiding foul odors and keeping conditions clean, sanitary facilities shall be built separate from the classroom buildings. As for the number of toilet units and floor plans for the toilet facilities, there are several standard types available, and shall be selected to suit the needs of each Project school. A simple septic tank shall be constructed underneath the toilet building. Sewage treated by the septic tank shall be drained into the ground through a soak pit that is to be placed outside the toilet buildings.

(2) Section Plans

To suit the strong sun and the hot, humid climate, the school building section plans shall be prepared by taking into account natural wind ventilation and insulation against the strong radiant heat from the roof. The floor to floor height of the buildings shall be 3.3m as stipulated in the Design Standards. The windows in the buildings shall be as large as possible. Also, to help prevent the rain from coming in during windy days and the strong sunlight from penetrating inside during the summer, eaves shall be provided over the windows. The buildings shall be provided with sloped metal roofs above concrete roof slabs to create attic spaces for the reason that good

ventilation of the attic spaces can prevent temperature rise in rooms caused by radiant heat from the roof. Further, metallic rain gutters shall be installed at the roof tips sticking out from the wall line, even though concrete rain gutters were installed in Phase I of the Project. To prepare for the possibility of flooding, the building floor level shall be set 50cm higher than the ground level. At the Project sites located in flood prone areas, the designed grade level shall be set higher than the flood level.

(3) Structural Plans

1) Structure Type

For both single and two-storied buildings, a reinforced concrete frame type structure, common in Vietnam, should be used. By making one unit of the frame structure $3.8m \times 5.6m$ (one half the classroom size), it may be possible to have smaller beams, thus a lighter load per column. For the roof structure, steel sloped beams shall be installed on reinforced concrete posts sitting on horizontal beams of a frame type structure. Steel frame rafters will not be used (although they were used in Phase I of the Project). The exterior walls and interior partition walls shall be brick. The ground floor slab shall be of reinforced concrete. At those Project sites with good bearing ground, individual footing foundations shall be used. Thus, the overall building weight shall be as light as possible. Because roof slab above the corridor will not be used, the building weight will be lighter than that in Phase 1 of the Project. The comparison of the differences of the structure types used in both Phases I and II of the Project is shown in the following table.

Table 2-8 Comparison of Structure Types

Item	Phase 1 Project	This Project (Phase 2)	
1. Structure Module	5,700mm×3,800mm	5,600mm×3,800mm	
1. Structure Module	(Width × Length)	(Width × Length)	
2. Ceiling Height	3.30 m	3.30m	
3. Main Structure	Reinforced Concrete	Reinforced Concrete	
	Frame + Brick Walls	Frame + Brick Walls	
4. Roof Structure	Steel Sloped Beams on	Steel Sloped Beams on	
System	Reinforced Concrete Beams	Reinforced Concrete Beams	
	and Posts	and Posts	
5. Ground Floor	Concrete Slab	Concrete Slab	
6. Foundation Type	Reinforced Concrete	Reinforced Concrete	
1	Continuous and	Independent Footing	
	Independent Footing	_	

2) Load and External Forces

The load condition for the structure design of Project facilities shall be in accordance

with the Building Codes of Vietnam (BCV) and the Design Standards of Vietnam.

Items that are not covered by these Codes and Standards shall be in accordance with

the design standards of the Architectural Institute of Japan (AIJ) and the American

150 kg/m²

Concrete Institute (ACI).

The design loads for Project facilities shall be as follows:

Live Load: Roof:

Classroom Floor: 200 kg/m²

Corridor: 400 kg/m²

Stairway: 500 kg/m^2

Wind Load: $P = Ce \times Qs \times Cq$

where, P is wind load per 1 m²

Ce: environmental coefficient

Qs: velocity pressure: 65 kg/m² in Zone Ia.

Cq: wind force coefficient

The BCV stipulates the design load and velocity pressure in the Project Area as

(wo=65kg/m² in Zone Ia). However, the BCV does not specify any wind force

coefficients. Thus, the Japanese standards shall be used for the wind force coefficient.

Seismic Force: $V = Z \times I \times Co \times W$

where, W: building weight

Z : area coefficient

I: building use coefficient

Co: standard shear stress coefficient

There are no design standards regarding seismic forces in Vietnam and the BCV(III

3.6) suggests using foreign standards. Therefore, the Japanese "seismic level 5" (an

acceleration of a minimum 80gal), which is equivalent to the coefficient in "shake

zone levels 6 to 8" (MSK) shown in the seismic zoning map of the BCV, should be

used. Thus, Co = 0.08.

2-30

3) Building Materials

All building materials shall be procured in Vietnam. Below are the specifications for the major materials and the allowable strengths.

Material Specifications: TCVN or JIS

Concrete: Fc=21N/mm²

Steel bar: fy=295N/mm (SD2954A: D10 to D16, SD345: D19 to D25, SR295: R6 and

R8)

Steel frame: fy=240N/mm (SSC400 and SS400)

Brick: Fc=75kg/cm²

(4) Facility Plans

1) Electrical Facilities

Lighting fixtures shall be installed in the classrooms, principal's rooms, teaching aid rooms and sanitary facilities for the reason that classes may be held in the evening when it's dark outside, as it generally gets dark earlier in the Northern Mountain Regions. In addition, outlets shall be installed to the classrooms, the principal's rooms and the teaching aid rooms. Also, to help alleviate the uncomfortable hot and humid room conditions during the summer, ceiling fans shall be provided in the classrooms, principal's rooms and teaching aid rooms.

As frequent thunderstorms occur in the Project Area, lightning rods shall be installed to all school buildings except for the toilet facilities, the same as was done in Phase I of the Project.

2) Water Supply Facilities

A cistern tank shall be installed at an elevation of approximately 2m above the ground in order to supply water to toilets. The Vietnamese side shall provide the water supply systems. For those Project schools that do not have a water supply system, access steps shall be built up to the top of the cistern tanks so that water can be hand-carried and poured into the tanks.

3) Sewage Systems

Sewage from the toilets should be treated by the use of a simple septic tank with a settling chamber and a decomposition chamber. The treated sewage shall be drained into the ground through a soak pit outside the toilet buildings. The capacity of the septic tank shall be based on the amount of water used and on the planned sewage storage period of each toilet type. Some Project sites have a clay soil ground with

poor absorbing qualities. In these sites and in areas with a high water table, trenches with perforated pipes should be installed instead of soak pits.

(5) Building Materials Plan

In order to make the operation and maintenance of the completed facilities simple and easy, building materials shall be selected with the natural weather conditions of the Project areas in mind and by taking the local construction methods into account.

1) Roofing Materials

So that buildings are well prepared for the local tornadoes and hailstorms during the winter, strong and durable roofing materials for sturdy roof structures shall be selected.

2) Doors and Windows

Aluminum units shall be mainly used. Use of wood materials shall be minimized because of the possibility of termite damage. When using wood materials, they shall be anti-termite treated with chemicals.

3) Floor Materials

Mortar, ceramic tiles and cement tiles are the most commonly used materials in the existing buildings at the Project schools. Floors of the Project school buildings shall be provided with cast-in-place terrazzo finish (as is commonly used in Vietnam), the same as was done in Phase I of the Project.

4) Wall Materials

Walls shall be constructed with bricks. The walls shall be provided with a paint finish on a mortar base. This finishing method is the most common in Vietnam and is simple to maintain.

The local school building specifications and the specifications for the Project are comprehensively compared in Table 2-9.

Table 2-9 Comparison of Specifications

			·	1	1
		Local Specs	Phase 1 Project Specs	Phase 2 Project Specs	Reason for Adoption
an	ıilding	Brick and Reinforced Concrete	Reinforced Concrete, Single and Two-storied	Reinforced Concrete, Single and Two-storied	Strong and durable
	Roof	Roof tiles, asbestos sheets and corrugated steel sheets	Steel sheets above concrete slab	Steel sheets above concrete slab	Strong against impacts, better heat insulation, simple and easy maintenance.
ing	Wall	Paint finish on mortar base on brick wall	Paint finish on mortar base on brick wall	Paint finish on mortar base on brick wall	Local method is selected for simple and easy maintenance
Exterior Finishing	Corridor Floor	Mortar, cast- in-place terrazzo, cement tiles, ceramic tiles	Cast-in-place terrazzo	Cast-in-place terrazzo	Simple and easy maintenance
Ex	Window	Wooden casement (glazed) windows	Wooden frame and aluminum jalousies	Aluminum jalousies with build-in frame	Better natural ventilation and lighting. Elimination of steel lattice and wooden material.
	Door	Wooden panel (glazed) doors	Wooden frame glazed doors	Wooden frame glazed doors	Simple and easy maintenance
iishing	Floor	Mortar, cast- in-place terrazzo, cement tiles, ceramic tiles	Cast-in-place terrazzo	Cast-in-place terrazzo	Simple and easy maintenance
Interior Fini	Wall	Paint finish on mortar base on brick wall	Paint finish on mortar base on brick wall	Paint finish on mortar base on brick wall	Simple and easy maintenance due to using of local method
	Ceiling	No finishing or paint finish	Paint finish on mortar base	Paint finish on mortar base	Simple and easy maintenance