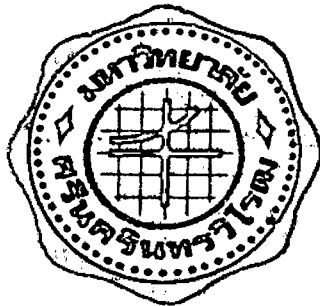


PROPOSED
JAPANESE-THAI COOPERATION PROGRAM
AT SRINAKHARINWIROT UNIVERSITY (EIGHT CAMPUSES)
1982 - 1987

by

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INITIAL SUMMARY PROJECT PAPER
WITH SIXTEEN DETAILED SUB-PROJECTS
TO BE ANNEXED

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I BACKGROUND

A hundred years ago when Western powers and civilization made way into Southeast Asia, Japan and Siam like two brothers in the region met the new wave in spite of our own traditions and values. History of the century records very well how each nation in the region made adjustment to the new situation. From these records, we understand that the two brothers responded differently to the new challenge and thus achieving different goals in subsequent developments.

The future and destiny of this region, and of our two nations will depend on the results of our choice in aims and means or adjustment patterns. The fact that the two countries are both similar and different is useful for us to learn together, share experience with one another, and draw upon each other's resources and potentials to fulfill our mutual needs.

As a matter of fact, Japan in the recent years has given assistance to Thailand in a number of ways, under various programs. But this proposed program of Japanese-Thai cooperation at Srinakharinwirot University will take a different nature. It is more direct toward human resource development which will bear long-term effect; it is more academic since it involves trainings of personnels and interchange of knowledge and culture; it is flexible and more or less open since projects can be initiated from both sides as interactions between individuals and institutions take place in both countries; and on top of these, ^{its} it's results will be shared by the grass-root population throughout Thailand since the up-country campuses of this university link well with the surrounding teacher colleges and local schools.

II SCOPE AND OBJECTIVES

The specific scope and objectives of each sub-project so far proposed by the Thai side are found listed under the next heading "SUMMARY OF PROJECTS." Further sub-projects to be proposed by the Japanese side as well as the Thai side will add-on to these.

Nevertheless, a general statement can be made here that the scope of the JAPANESE-THAI COOPERATION PROGRAM AT SRINAKHARINWIROT UNIVERSITY (EIGHT CAMPUSES), 1982 - 1987 covers a range of sub-projects and activities of interest to each side that are feasible to be implemented. Priority will be given to sub-projects that emphasize development of human resource as a means to economic and cultural development; and sub-projects that bear results to the mass population of the country especially that can reach rural settings, directly or indirectly.

The objectives of this JAPANESE-THAI COOPERATION PROGRAM as a whole can be stated as:

- 1) To provide an opportunity for the two historically close-net countries to learn together, share experience, and grow together into the future.
- 2) To provide training and up-grading of Srinakharinwirot university personnels in important areas of activities so as to become ready for works in development of the country.
- 3) To provide specific technical training for Srinakharinwirot university staff to match the jobs and duties brought about by Japanese assistance in capital and facilities, such as the Marine Science Center gift, etc.
- 4) To establish a condition for the Japanese personnels to exercise their global and generous propensities in response to the world's need of today.
- 5) To set-up a laboratory-like situation for testing the well-known model of Western-eastern integration of values which has been successfully used by Japan in the last 80 - 90 years of her cultural development.

III SUMMARY OF PROJECTS

Within the proposed JAPANESE-THAI COOPERATION PROGRAM AT SRINAKHARINWIROT UNIVERSITY which is a more or less open program allowing both the Japan side and the Thai side to propose additional sub-projects as deemed appropriate, SWU^{1/} Campuses and Faculties have already proposed the following sub-projects.

Sub-project 1: The Expansion of Shared-Instructional Media Programme And Learning Resources, (THE CENTRAL LIBRARY).

Scope and Objectives

This project is ambitiously planned to be a national center and clearinghouse where the instructional media and learning resources are selected, acquired, exchanged, and shared among the member institutions throughout the country.

The specific objectives of the project are:

- 1) To vitalize the present instructional media and learning resources service of the library. *as few world resources*
- 2) To improve and acquire necessary equipment, materials, and facilities in order to serve as a national center clearinghouse in the long-run.

Cooperative Activities

This project needs mainly equipments, materials and service of experts.

1/ SWU = Srinakharinwirot University
(eight campuses)

Sub-project 2: Personnel Development Project, (DEPARTMENT OF HISTORY,
FACULTY OF SOCIAL SCIENCES)

Scope and objectives

The importance of East Asia especially Japan and the fast-growing relationship between Japan and Thailand are of major interest among Thai people today. The Department of History will serve this interests of students and the country by offering more courses in Japanese/Asian history and culture.

The objectives of the project are:

- 1) To provide short-term (1 year) in-service training in Japanese/Thai history and/or culture in non-degree programs at Japanese Universities.
- 2) To provide Ph.D. training in Japanese/Thai history and/or culture at Japanese Universities.
- 3) To conduct short-term courses for the benefit of Japanese students in Thai and/or Southeast Asian history and/or Thai Language.
- 4) To establish a Center for Japanese/Thai studies consisting of a small specialized library and research facilities.
- 5) To provide research facilities for Japanese scholars who are interested in conducting research on Thai studies in Thailand.

Cooperative activities

1. Short training in Japanese/Asian history courses and short-term educational tours of Japan.
2. Training at Ph.D. degrees, or equivalent, in Japanese/Asian history in Japan.
3. SWU history Department will send at least 1 lecturer per year as a visiting lecturer in residence in a Japanese University.
4. About 5 Japanese scholars (1 per year) will lecture courses in Japanese history and/or conduct their research in Thai studies, at Srinakharinwirot University.

Sub-project 3: Establishment of Social Sciences Research Center,
(THE FACULTY OF SOCIAL SCIENCES)

Scope and Objectives

A Social Science Research Center will serve both the immediate need for consolidating existing manpower, and receiving the assistance of foreign experts, and the long-term need for upgrading and re-orienting the manpower toward important social sciences research needed for the country.

The objectives of the project are:

- 1) To conduct theoretical research in the social sciences and especially as applied to education and training.
- 2) To coordinate and/or provide consulting service to research project within as well as outside the university where requested.
- 3) To provide research training to graduate students and staff for better conduct of social sciences research.
- 4) To serve the University's administration on the screening of research proposals and evaluating research projects.
- 5) To provide an instructional base-of-operation for researchers.

Cooperative Activities

- 1) Short training fellowships with various areas of specialization in the field of social sciences.
- 2) Doctoral training fellowships in the field of social science.
- 3) Expert service: one senior expert and a number of foreign staff are needed while the local staff members are being trained outside Thailand.
- 4) Some equipments and supplies are also needed to facilitate the activities.

Sub-project 4: Establishment of Research Laboratory in Physical Education, (THE FACULTY OF PHYSICAL EDUCATION)

Scope and objectives

The Faculty of Physical Education is the first and the only one of its kind among Thai universities. It started offering a bachelor's degree program in physical education since 1970 and expanded into a master's degree program in 1974. Since then, there has been a total lack of necessary equipments and qualified personnels to conduct and supervise experimental research works in physiology of exercise and sports science, a field in which Japan is most distinguished and well-known worldwide.

The objectives of the project are:

- 1) To equip a research laboratory with modern equipments and instruments.
- 2) To train qualified personnels who will be able to conduct and supervise research works in physiology of exercise and sports science.
- 3) To facilitate research works of the graduate students.
- 4) To render broader service to other institutions and athletes such as the Thai national athletes and the Thai National Olympic Committee.

Cooperative Activities

- 1) Short training fellowships and study-tour fellowships in Japan.
- 2) Expert service from Japan.

Sub-project 5: Construction of a Standard Swimming and Diving Pool,
(THE FACULTY OF PHYSICAL EDUCATION)

Scope and Objectives

The Faculty of Physical Education was offering Bachelor's degree in physical Education in 1970 and Master's degree in 1974. Throughout this time, there has been no swimming pool facilities at the university. Swimming has become one of the most popular sports and recreational activities in the country.

The Faculty of Physical Education strongly needs to construct a standard 50-metre swimmingpool and diving pool on the Prasarnmit campus of Srinakharinwirot University.

The objectives of the project are:

- 1) To help train physical education teachers qualified to teach swimming.
- 2) To help train swimming coaches for Thailand.
- 3) To provide recreational facilities for the Srinakharinwirot University general student body, and for the general public as well.
- 4) To use the facilities as a training ground for university and national swimming athletes.
- 5) To use the facilities for future international swimming competition.

Cooperative Activities

- 1) Construction of a standard 50-metre swimming pool and a diving pool.
- 2) Training fellowship for swimming pool operators, directors, swimming coaches and diving coach.

Sub-project 6: Expansion and Enrichment of Health Education, (THE FACULTY OF PHYSICAL EDUCATION)

Scope and Objectives

Thailand has made a strong policy for improving health condition of the people, but is facing the problem of shortage of health personnel at all levels. There are growing needs for health education personnel in various health projects. This project needs to contribute to the achievements of the national health developments program through academic program in preparing health educators.

The objectives of the project are:

- 1) To produce personnel with Bachelor's degree in Education majoring in school health Education and community health education program.
- 2) To produce Master's degree in school health education program.
- 3) To provide in-service training in school help and public help education for school health teachers, health educators.
- 4) To provide training course in primary health care for special voluntary groups, and to support the primary health care project, being implemented by the Ministry of Public Health.
- 5) To conduct needed research in the field of health education and related fields.

Cooperative Activities

- 1) Doctor's degree and Master's degree fellowships.
- 2) Expert services from Japan.
- 3) Equipments: 16 mm, 8 mm, movies projector, movies camera, generator 3 kilowatts.

Sub-project 7: Students Thai language Dictionary, (THE FACULTY OF HUMANITIES)

Scope and Objectives

The scope of this sub-project covers the following:

1) A collection and analysis of 20% of spoken Thai in radio and television broadcasting, modern drama, 20 recording hours of lectures, debates, and conversations between people of different age groups.

2) A collection and analysis of 20% of written Thai newspapers, magazines, school and university textbooks published or used during 1983 - 1984.

The objectives of the project are: To record and analyze, in dictionary format,

1) existing words in spoken Thai, and

2) existing words in newspaper, magazines, school and university textbooks.

Cooperative Activities

1) One micro-computer to link up with the main computer outside the university.

2) Research funds.

Sub-project 8: The Expansion of Thailand program in Development Education to Serve All ASEAN Member Countries, (GRADUATE SCHOOL)

Scope and Objective

This is the expansion of the eight-year old Doctoral Program, which the university has been operating and 15 doctorate students have graduated. Twenty-two students are presently in the pipe-line, one being Her Royal Highness Princess Mahachakri Sirinthorn. The existing program has strong interest from ASEAN member countries, but without some external inputs the present program could not serve in such a scale.

The present program will be expanded to be able to enroll doctoral students from other ASEAN member countries, an average of two students from each country every two years. Also professors are to be recruited from these and other countries to strengthen the staff of the program.

The objectives of the project are:

- 1) To help in the training of high-level development educators for the member countries. These personnel will be policy-makers, planners, and top-level administrators in the education system.
- 2) To strengthen the cohesion among the ASEAN countries through educational activities.
- 3) To produce joint research and seminars in development education.

Cooperative Activities

- 1) Training of doctoral students in Development Education for the ASEAN region, 2 students from each country in one batch.
- 2) Two fellowships from each country.
- 3) Joint research of the Work Education project. It is named "Work Culture in the ASEAN Region."
- 4) A seminar on "Work Education," and "Work Culture," Also a conference on the topic of "Education for national Development."

Sub-project 9: Development for the Behavioural Science Research
Institute, 1982 - 1987, (THE BEHAVIOURAL SCIENCE
RESEARCH INSTITUTE)

Scope and Objectives

Since 1965 the main objectives of this Institute have been expanded to include not only research and training of researchers in the field of child development but also researches in educational socio-psychological problems which require immediate attention and actions. The expansion of the objectives of the Institute is aimed to improve the quality of Thai personnel and Thai human resources which will be of great use for further development of Thailand.

The objectives of the project are:

- 1) To develop of the behavioural and psychological trait of human resources in Thailand.
- 2) To give instruction in Behavioural Science Research at the post-graduate level.
- 3) To develop and publish child-rearing handbooks for children's behavioural and psychological development.

Cooperative Activities

- 1) Doctoral or Master degree fellowship for study in Japan.
- 2) Study tour and short training.
- 3) Equipment: Computer, two vans, and one trailer.

Sub-project 10: The Herb Plantation Project, (SRINAKHARINWIROT UNIVERSITY
AT PITSANULOKE)

Scope and Objective

Srinakharinwirot University at Pitsanuloke has been interested in the studying and analyzing of herbs. Since 1969 the University has sponsored research and surveys conducted in the vicinity of Kaoluang, Amphur Kirimath, Sukhothai province, which is one of the most important resources of herbs in Thailand. Thus, in order to facilitate such research and studies for the benefit of the people, to save money spent on foreign drugs, and to expand public health services in compliance with His Majesty's plan, the University has decided to set up the herb plantation project.

In the year 1981 there are two medium-sized herb plantations. That is the one at Ban Nam Lard, Kirimath, Sukhothai, with an anticipated expansion up to 20,000 rai around Kaolaung. This is the center for supply providing raw materials for the permanent nursery at Tung Nong, Pitsanuloke which is a research and service center.

The objectives of the project are:

- 1) To set up a herb plantation at Nam Lard, Ban Pom, Kirimath, Sukhothai as a natural conservation and resource center. Also to found another one at Tung Nong or Pak Klong Jig, Ta Po, Pitsanuloke to be used in analytical research.
- 2) To provide and to plant varieties of herbs for medical and economic purposes. To provide both knowledge and service for the people who want to grow the herbs.
- 3) To act as coordinator among national and international organizations for the improvement of the herb plantations.

Cooperative Activities

- 1) Short training or study tour.
- 2) Doct~~o~~rate or Master degree studies in the field of Herbs Taxonomy and Chemical Analytic.
- 3) Building of Nurseries.
- 4) Equipments, pesticide, fertilizers, labels, and office equipments.

Sub-project 11: The project to Establish Folklore Museum Southeast Asia Regional Level, (THE INSTITUTE OF SOUTHERN THAI STUDIES)

Scope and Objective

The establishment of the museum will benefit the country in many ways such as making the country well-known, leading to other kinds of tourism, increasing the income in artistic along the lines of the handicraft distribution project of the Institute. Moreover, the research result concerning Southern Thai Studies of the Institute may be applied to the development of the South in every other ways, including the capacity to utilize cultural data to help peace and stability of the country.

The construction of the museum is to be carried out in 1983 - 1984 in accordance with the specifications. The financial request is made to either the government or international agencies.

The Objectives of the project are:

- 1) To attract both Thai and foreign tourists especially Malasian tourists to visit Songkhla and invite them to stay for long.
- 2) To provide equipment and site for training of local handicrafts by using local raw material.
- 3) To contribute the extensive research on the Southern region.
- 4) To serve as an academic center as well as cultural coordination center between the Southern cultural center and other cultural agencies both at in-country and at international levels.
- 5) To elevate efficiency of the Institute of Southern Thai Studies in maintaining every branch of culture.

Coopeative Acitivities

- 1) The construction of a 3-storeyed 42 x 49 meters building, joined to another building of 10 x 12.5 meters to be used for exhibition and sale of native handwork.

2) Equipment, and interior decoration: temperature controller, equipment, for conference room, for sound museum, for guest houses/rooms and outdoor decoration.

3) Doctoral fellowships in Museum, Research, Folklore. Also Master fellowships in Sculpture, Drama, Public Relations, Pottery.

Sub-project 12: The Application of Food Science and Biotechnology for Improving Agricultural and Food products, (SRINAKHARINWIROT UNIVERSITY AT MAHASARAKHAM)

Scope and Objectives

Srinakharinwirot University has now set up a small Center for Food Science which is making effort in applying food and agricultural technologies for development of agricultural production, processing, and storage of food in Thailand. But the Center is limited in personnel and equipment as well as building space.

The objectives of the project are:

- 1) To provide training of staff in the fields of appropriate food technologies, community nutrition program, and agricultural education.
- 2) To have the service of Japanese experts.
- 3) To conduct joint and cooperative research between scientists in Thailand and from Japan.
- 4) To expand the physical facilities such as building.

Cooperative Activities

- 1) Doctor's degree fellowship and Master's degree fellowship.
- 2) Expert service from Japan.
- 3) Equipment for cold storage of food, and agricultural chemistry laboratories.
- 4) Building spaces.

Sub-project 13: Staffing of the Marine Science Center, (EASTERN CAMPUS)

Scope and Objectives

It has been a very wise and generous decision of the Japanese Government to recently provide capital assistance for building a full-scale Marine Science Center at the Eastern campus, Cholburi, of Srinakharinwirot University. With close supervision and control of the Japanese engineers, the building is now nearing completion. The next task of the university in this connection is to prepare appropriate personnel to staff the Center for its effective functioning. This can be accomplished by re-training of the existing staff and by using of experts while local staff are still under training.

Cooperative Activities

- 1) Short training for eight weeks each to a number of (say 10 - 20) local staff, in Japan, in the various activities of the Center such as in meseum, aquarium, etc.
- 2) Five to eight man-years of service of experts at the Center, while the local staff are still under training in Japan.

Sub-project 14: The Establishment of An Easarn Cultural Center,
(NORTHEASTERN CAMPUS)

Scope and Objectives

The Northeastern part of Thailand is the biggest part in terms of geographical area and population. But it is the poorest part in terms of economy, and most sensitive in terms of political insurgency.

The culture in this part of Thailand if revitalized and rejuvenated in the right direction, with appropriate modern economic outlooks, can be a powerful instrument to solve the said economic and political problems.

Thus the objective of this project is to establish an Easarn Cultural Center that can function in the above manner, by expanding from the groundwork already existing.

Cooperative Activities

- 1) Provision of a building facility to serve as the Center Building, at the cost of about 10 million baht.
- 2) Re-training of some local staff by short-trainings in Japan and by employing of Japanese experts to Srinakharinwirot University.

Sub-project 15: The Establishment of A Japanese Language and Culture Study Center (CENTRAL CAMPUS AT PATUMWAN OR PRASARNMIT, OR AT EASTERN CAMPUS)

Scope and Objectives

Japan and Thailand have been interchanging in trades and culture throughout the last 90 - 100 years. But the last two or three decades have witnessed sharp increases in such interchanges, and there is a tendency for more increase in the future. With this, comes the need for Thai people in general and Thai manpower of various economic activities in particular, to understand Japanese language and culture.

In addition, Japan as a good example of Asia to smoothly integrate her traditional values with Western industrial values and to successfully harness the human resource for national prosperity, serves as a model for other countries including Thailand.

Thus the functions of this Center will include Japanese language instruction, research in Japanese culture and the comparison or interaction with Thai culture a library, an exhibition hall, etc.

Cooperative Activities

- 1) Staff training of two years each, for 6 persons.
- 2) Expert services in drafting of the language instruction program, joint research program, and other program plannings.
- 3) Facilities development from the existing base-facilities into language labs, library, exhibition hall, etc.

Sub-project 16: The Establishment of a Marine Mercantile and Shipping Management Center, (SOUTHERN CAMPUS)

Scope and Objectives

The Southern Campus at Songkhla is geographically ideal to provide training and research in marine mercantile and shipping management. The government is now considering setting up a Marine Mercantile Pier in Songkhal to serve the need in maritime manpower need of this region.

This area of skilled manpower is no doubt a necessity for Thailand and other countries of this region. Our international transport of cargo is mainly done by surface, which is much cheaper than by air or by land. Trained manpower from this Center will fill the need not only of Thailand and other ASEAN countries, but also of other countries over the world.

Cooperative Activities

1) As an initial step, expert service from Japan is needed for making feasibility study of the Center and for drafting of training program.

2) Some short training of Thai staff is also necessary, say 3 - 4 persons of 2 - 3 months each.

IV SUMMARY OF COOPERATIVE ACTIVITIES

Cooperation/Assistance	Amount or Number	Time-Frame	other Particular
1) <u>The Expansion of shared Instructional Media Programme and Learning Resources.</u>			
1. Equipment and material required for color T.V. and Audio broadcasting, (Table 2 - 3)	\$222,720 (already acquired \$18,146)	1982-1987	
2) <u>Personnel Development Project (Faculty of Social Sciences).</u>			
1. Short-term Educational Tours by Japan fellowship.	5 man/3 months \$18,725	1983	book, maps, and audio-visual aids.
2. non-degree; Doctoral degree scholarships.	1 man/1 - 2 year \$60,475	1983-1987	
3. one Thai and one Japanese visiting fellowship	per year \$190,450	1983-1987	
3) <u>Establishment of a Social Science Research Center.</u>			
1. Short training fellowship	3-4 persons \$20,000	1982-1986	
2. Doctoral fellowship	6-8 persons \$180,000	1982-1986	
3. Equipment	\$765,000	1982-1986	
4. Research Funds	\$200,000	1982-1986	

Cooperation/Assistance	Amount or Number	Time-Frame	Other Particular
4) <u>Establishment of Research Laboratory in Physical Education.</u>			
1. Study-tour fellowships	3 persons/15 days	1983	
	\$7,000		
2. Training fellowships	2 man/4 months	1983	
	\$20,000		
3. Research equipment	\$100,000		
5) <u>Construction of a Standard Swimming and Diving Pool.</u>			
1. Construction Cost	\$700,000	1983-1985	Thai Gov.
2. Personnel training	\$55,000	1983	=\$75,000
		1983-1985	for personnel salary
			1983-1985
6) <u>Expansion of Enrichment of Health Education.</u>			
1. Doctor's degree	6 man	1983-1986	Administrative
Master's degree fellowship	6 man		cost=\$9,000
	\$138,000		Research and
2. International consultant	\$10,000	1983-1986	book supply
3. Equipment			=\$40,000
movie projector	3	1983-1984	
movie camera	4	1983-1985	

Cooperation/Assistance	Account or Number	Time-Frame	other Particular
7) <u>Students Thai Language Dictionary.</u>			Publication of Student Thai
1. Equipment:			
micro-computer	\$20,000(1)	1983-1987	Dictionary
computer discs	\$1,600(100)		\$10,800
2. Research funds	\$17,390		
8) <u>The Expansion of Thailand Doctoral Program in Development Education to serve All ASEAN Member Countries.</u>			Typing facilities, Secretary, Supplies and miscelleneous = \$33,000
1. Doctoral training fellowship	10 students \$108,000	1983-1987	Air ticket for 8 students
2. Research Funds	\$45,000		\$3,000
3. Seminar and conference	\$80,000	1983-1987	Air ticket for regional staff \$57,000 Honoraria \$18,000
9) <u>Development for the Behavioural Science Research Institute.</u>			
1. Study-tour	2 time/per year \$50,000	1983-1986	
2. Short training	1 year \$25,000		

Cooperation/Assistance	Account or Number	Time-Frame	Other	Particular
3. Fellowship for study abroad	6 person \$140,000	1983-1986		
4. Expert service	8 person \$480,000			
5. Computer Van	\$300,000 2 vans \$60,000	1983		
10) <u>The Herb Plantation Project</u>			Japanese	
1. Building nurseries			Assistance	
2. pesticide, fertilizer	\$130,434	1981	requesting	
3. Short training or study-tour	About 12 man/months \$8,000	1983-1987	for	pesticide
4. Doctoral's degree fellowship	2 men/3 years \$112,000	1983-1986	and	fertilizers.
11) <u>The project to Establish Folklore Museum Southeast Asia Regional Level.</u>				
1. Construction investment cost	\$4,086,956	1983-1984		
2. Recurrant cost	\$913,043	7 years		
3. Fellowship to study abroad	4Ph.D., 9 M.S. \$260,000 (\$5,000/m/y)	1983-1987		

Cooperation/Assistance	Account or Number	Time-Frame	other	Particular
12) <u>The Application of Food Science and Biotechnology for Improving Agricultural and Food Products.</u>				
1. International consultant	3 persons \$15,000	1984-1987	Research book supplies =	
2. Doctor's degree Master's degree	6 persons \$168,000	1984-1987	\$40,000;	Administrative
	6 persons \$168,000		cost = \$15,000	
3. Laboratories building	\$1,000,000	1984.		
13) <u>Staffing of the Marine Sciences Center, (EASTERN CAMPUS)</u>				
1. Short training for eight weeks in Japan	10-20 persons \$60,000	1983-1987		
2. Japanese experts	5-8 man years \$480,000	1983-1987		
14) <u>The Establishment of An Eastern Cultural Center, (NORTHEASTERN CAMPUS)</u>				
1. Provision of a building	\$43,500	1983-1987		
2. Short training in Japan	3-5 persons \$40,000	1983-1987		
3. Japanese experts	\$10,000	1983-1987		

Cooperation/Assistance	Account or Number	Time-Frame	Other Particular
15) <u>The Establishment of a Japanese Study Center,</u> (CENTRAL CAMPUS AT PRATUMWAN OR PRASARNMIT, OR AT EASTERN CAMPUS)			
1. Staff training two years back	6 persons \$60,000	1983-1987	
2. Expert services (language instruction program, joint research program)	3 persons \$20,000	1983-1987	
3. Facilities development (language labs, library exhibition hall)	\$100,000		
16) <u>The Establishment of a Marine Mercantile and shipping Management Center,</u> (SOUTHERN CAMPUS)			
1. Expert service from Japan	3 persons \$20,000	1983-1987	
2. short training (2-3 monthes)	3-4 person/ 2-3 monthes \$32,000	1983-1987	