Summary Of

Royal Thai Government

and

United States Operations Mission

Cooperative Efforts

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in

Development of Vocational Education

1953 - 1973

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FOREWORD

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The Development Assistance Group for Thailand Working Group, Vocational, Technical Industrial and Agricultural Education, at their first meeting held on 13 November 1973 requested reports from DAGT members on their cooperative efforts with their Thai colleagues in projects designed to improve vocational education in Thailand. This report presents the following:

- 1. Summary of USOM Cooperation, 1953-1973.
- 2. List of major reports on file on Vocational Education Projects.

- List of scholarships provided in vocational education, 1965-1972. Full list is available in Directory of USOM Participants, September 1951 - February 1965.
- 4. List of instructional materials prepared under recent projects.

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SUMMARY OF

Assistance Provided in Development of Vocational, Technical and Agricultural Education.in Thailand 1953 - 1973

The United States Operations Mission to Thailand

The task that has faced the Thai-American efforts in providing relevant skill training for the young people of the Kingdom has been an ever changing one. As the economy developed, the training needs changed accordingly. These changes were more pronounced in the urban areas than in the rural villages and as a consequence the urban based training became more complicated and formalized. This resulted in increasingly higher age groups being admitted to the more advanced training programs.

In the early 1920's and into the 1930's, carpentry and agriculture were considered appropriate occupational subjects to be taught to twelve-year old children in the fifth grade. After World War II, occupational training was moved in the "primary extension" schools at grades 5, 6 and 7 for children who could not get into what was then considered the lower secondary school (a parallel, more academic stream also at grades 5, 6 and 7). The skill training stream was commonly referred to as the "Carpentry Schools". USOM's support to vocational education in Thailand reflects the changes that have taken place in the structure of the school system and the needs for training required by the new developments in the agricultural, commercial and industrial sectors.

Starting in 1952, U.S. assistance to vocational education was focused on three major areas: (1) practical training in the "primary extension" schools which was designed to make the youngsters, who could not get into the lower secondary schools, more employable upon completion of grade 7; (2) improved technical and commercial education at Bangkok Technical Institute, which at that time was conducted at grades 11, 12 and 13; and (3) vocational agriculture education at Surin and Mae Joh (Chiang Mai) schools.

Direct hire U.S. Government vocational education technicians in the various trades and agricultural areas arrived in Thailand in 1953. In December 1956 a contract was negotiated with Wayne State University to provide additional technical assistance to Bangkok Technical Institute as well as to the newly established technical institutes at Chiang Mai, Korat and Songkhla. This was the first of a series of AID sponsored institutional contracts through which U.S. contract employees assisted the AID direct hire technicians supply the necessary technical assistance to support vocational/technical and agricultural education in Thailand. The contracts are listed below.

Wayne State University

The Wayne State University/Technical Institute Contract was signed by representatives of the governments of Thailand and the United States and the institutions concerned on November 25, 1956. The first members of the contract team arrived in Bangkok on December 5, 1956.

The original contract provided for assistance from November 25, 1956 through November 24, 1959, and included provision for 27 man-years of technical assistance and 30 man-years of participant training. In 1958, a 10-month extension was processed, bringing the contract termination date to September 30, 1960. The total funding amounted to \$852,800 and the Baht equivalent of \$235,000 in local currency.

Assistance was given to the Bangkok Technical Institute, the Southern Technical Institute (Songkhla), the Northeastern Technical Institute (Korat) and the Northern Technical Institute (Chiengmai).

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Area	Tour in Thailand
Chief of Party	December 5, 1956 - September 30, 1960
Auto Mechanics	December 5, 1956 - July 19, 1959
Business Education	December 5, 1956 - September 30, 1960
Electricity .	December 5, 1956 - September 30, 1960
Home Economics	December 5, 1956 - September 30, 1960
Industrial Arts	December 5, 1956 - September 30, 1960
Mathematics and Science	November 10, 1958 - September 30, 1960
Metal Trades	December 5, 1956 - September 30, 1960
Printing	September 8, 1957 - June 19, 1959

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- 3 -

SEATO Skilled Labor Project

University of Hawaii Contract

From 1959 to 1965, a contract with the University of Hawaii provided assistance to the Department of Vocational Education in establishing trade training programs in six basic trades at twenty of the existing trade schools. Training in these schools was being up-graded to the 11-12-13 year level. These contract services were funded under a USOM project which was classified as a part of the U.S. contribution to SEATO, and which was therefore entitled the SEATO Skilled Manpower Project.

In addition to the 20 trade schools in the rural areas of Thailand, a vocational teacher education program was established at Thewes Vocational Teachers College in Bangkok to train shop teachers for the up-country schools.

Training was offered in six trades:

- 1. Auto Mechanics and Diesel 4. Building Construction
- 2. Welding and Sheet Metal 5. Basic Industrial Electricity
- 3. Machine Shop 6. Radio Repair.

There were ten full-time technical advisors involved in this project for a total of about 35 man years. The areas of concentration for the Contract Specialists were:-

1. Chief of Party - Advisor to the Director General of Vocational Education.

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- 2. Equipment Procurement and Building Specialist.
- 3. Vocational Teacher Education Specialist.
- 4. Building Construction Training Specialist.
- . 5. Welding and Sheet Metal Training Specialist.
 - 6. Automotive and Diesel Mechanics Specialist.
 - 7. Machine Shop Training Specialist.
 - 8. Basic Electricity Training Specialist.
 - 9. Radio Training Specialist.
- Apprenticeship Training and Training in Industry Specialist. (Later changed to Guidance)

The chief function of this staff was to develop a Thai counterpart staff to carry on the vocational program after termination of the Contract.

Provisions were made in the contract for sending participants to the United States for training. There were 27 participants who were trained abroad. One earned a BS degree and the other 26 had six months training at the University of Hawaii.

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The total cost of the project in dollars was \$1,835,000 from the U.S.G. and the Baht equivalent of \$900,000 from the R.T.G.

Development of Maintenance and Supply Division

Beginning in 1963, USOM assisted the Department of Vocational Education in the development of a Maintenance and Supply Division which would serve all vocational schools in the Kingdom. Also in 1963, USOM began procuring from U.S. excess property sources a number of bulldozers, road graders, trucks, tractors and the like. These were distributed to vocational agriculture schools for use in clearing land, improving the land contour, improving access roads, and performing routine farm improvement tasks.

Long-term technical assistance was provided through personal services contractors and American direct hire technicians. These advisors provided about 10 man-years of assistance in:

- a. Organization and management of the operations of MSD.
- . b. Training a Thai staff of 75 specialists.
 - c. Served as USOM representatives in receiving and disbursing the dollar commodities which were used in this development activity.
 - d. Advised in establishing a warehouse inventory procedure for spare parts.
 - e. Served as USOM representatives in disbursing U.S. supplied heavy equipment.
 - f. Advised in establishing an inventory of all shop equipment in vocational schools supporting ARD training.

During November and December of 1965, thru a Participating Agency Service Agreement, supply and inventory specialists from the U.S. Army Logistical Center in Japan, were assigned to the MSD for 30 days. These men were requested for the purpose of improving Thai supply/warehouse personnel capabilities in procurement, record-keeping, inventory and supply procedures. During the early months of 1966, sound systems for stock record control and inventory procedures were developed. A stock record form, in English and Thai, was designed, and 10,000 copies were printed and put into use. Requisition forms were also designed, and a requisition register and cost register placed in use.

The MSD was particularly effective in providing logistical support to the LIVE Project schools during heavy procurement and distribution schedule from 1967 to 1973.

Technical Training for Accelerated Development

In 1964, in recognition of the growing threat to Thailand's security caused by social unrest and insurgency, USOM/Thailand reassessed its participation in RTG programs. As a result of this reassessment, an Office of Rural Affairs was created within USOM to assist the new RTG Office of Accelerated Rural Development (ARD). A major goal of ARD was to open up remote areas of Northeastern Thailand by constructing new roads. Equipment for this road construction became a major commodity item in the USOM program and the training of skilled operators, machanics and allied construction workers became a major requirement.

Seeking a means of training operators and mechanics before the arrival of the ARS heavy construction equipment, USOM turned to the Department of Vocational Education, Ministry of Education and asked to use the tractors, trucks, and bulldozers that had been provided for the vocational agriculture schools during the preceding year. Permission was granted, and training was begun at the schools to which the equipment had already been delivered. The training project which was assigned to the Education Division in August of 1965, was originally titled Thai Training for ARD. It was later renamed Technical Training for Accelerated Development (TTAD), when training was made available to other RTG agencies as well as ARD. The U.S. input was approximately \$4.4 million for personnel, participants and commodities.

Advisory serviced were provided by USOM direct hire personnel, a contract with Philco-Ford Corporation and the services of the U.S. Army Engineering Control and Advisory Detachment (ECAD). The training was provided at Northeast Technical Institute (NETI) at Korat and field training was provided at four different TTAD Centers.

The aims of the TTAD Program were twofold:

- 1. To train Engineering Technicians, Heavy Equipment Mechanics and Operators, and Construction Management and Shop Administrators for the TTAD Program. This was done with the cooperation of the Ministry of Interior in the ARD Changwad, Mobile Development Unit, Community Development Department and Land Development Department.
- 2. To train competent instructors in the foregoing fields for the TTAD Training Centers and for agriculture schools under the Loan for Improvement of Vocational Education Project.

- 5 -

A list of the various TTAD courses follows:

1. Engineering Technology. Includes Soils, Concrete, Roads and Airfields, Bridges, Dams, Irrigation, Water, Sanitation.

2. Surveying

3. Drafting

4. Building

5. Construction Foreman (Up-grading) (3 months)

6. Construction Clerk

7. Engineering Instructor

8. Heavy Equipment Operator

9. Heavy Equipment Mechanic

10. Shop Administrator/Storekeeper

11. Mechanic Theory (3 months)

12. Heavy Equipment Instructor

Except where noted, the duration of these courses was six (6) months.

Philco-Ford Corporation Contract

The Philco-Ford Contract covered the period September 1966 through June 1968. Technical services provided by Philco-Ford included as many as 31 specialists at one time. In order to get broad coverage, many of the specialists were on a short-term assignment. For example in 1966, the Philco-Ford Report showed that the number of instructors present were as follows:-

Jan	-	24	· May		28	Sept	- <u>-</u>	Ź4
Feb	-	23	June		26	Oct	-	27
Mar	-	24	July	-	25	Nov -	-	31
Apr	-	20	Aug	-	24	Dec	-	31

The Heavy Equipment training ceased on December 15, 1967. The Philco-Ford training staff remaining at the end of the year was reduced to 19. The U.S. dollar allocations for contract services were about \$950,000 and there were approximately 25 man-years of technical assistance. Working with their Thai colleagues, a total of <u>113</u> bilingual Instructor Guides (a detailed lesson plan) were produced in the following subject areas:

Surveying Drafting Supply Soils Technology Roads Concrete Technology Dams and LFrigation Educational Methodology Heavy Equipment Operation Geology Structural Analysis and Design Bridges Buildings Hydrology and Sanitation Blueprint Reading and Estimating Supervision Management Vehicle Maintenance Heavy Equipment Mechanics Hydraulics Technical English

Approximately 1,000 International Harvester, Catepillar, General Motors Diesel, Allis-Chalmers, and 500 Ford Motor Company Training aids, i/e manuals, wallcharts, filmstrips, recordings and flip charts were acquired under the contract.

In July of 1967, a consolidated and systematized book entitled <u>PHILCO-FORD/ARD CURRICULUM</u> was published. At the end of 1967, all engineering course curricula were again reviewed and revised. This action being the natural outcome of experience received throughout 1967 and from the responses received from the questionnaires. The newly revised curricula were so written as to make best use of the Instructor Guides, a combination lesson plan/unit outline/source material manual written in Thai and English and designed to provide an instructional base.

With 1968 came new curriculum requirements as ARD shifted emphasis from road construction to water resource development. Additionally, a requirement arose to up-grade former graduates to higher level positions such as Design Technician to Chief Design Technician; Draftsman to Design Technician; Construction Foreman to Construction Technician. These were published under a new title by Philco-Ford, <u>Technical Training for Accelerated</u> <u>Development</u>.

U.S. Army Engineering Control and Advisory Detachment (ECAD)

ECAD provided field training in the use of equipment under actual working conditions. This was carried out at two different sites by a five man team of U.S. Army heavy equipment specialists. About 8 man years of services were provided by ECAD personnel. Army manuals developed at the U.S. Army Corps of Engineers school at Ft. Belvoir, Va. were adapted for use at TTAD.

Although both the above contracts have terminated, this project continues at the TTAD Training Center, Northeast Technical Institute, Korat. USOM assistance under Vocational Education was terminated in 1970. However, USOM assistance to TTAD continues under the Office of Field Operations, USOM.

Loan for Improvement of Vocational Education (LIVE) Project 1966 to 1973

This project was designed to expand and improve 25 vocational schools. Included in the LIVE Project are 14 trade and industry vocational schools, Thewes Technical Vocational Teacher Training College, 9 agricultural vocational schools and Bangpra Agricultural Teacher Training College.

The Government of Thailand provided the equivalent of 16 million dollars for building construction, approximately 10 million dollars for operating costs during the six year life of the project and a loan of 6 million dollars was obtained from the World Bank (IBRD) for the purchase of tools and equipment.

The U.S. Government provided nearly 3 million dollars worth of advisory assistance through the services of four USOM direct hire vocational education specialists (16 man-years), a five man contract team of agriculture specialists from <u>California State Polytechnic University</u> (25 man-years) and a seven man team of trade and industrial specialists from <u>Oklahoma State University</u> (30 man-years). The technical advisors services were provided in all technical courses taught in the LIVE Project schools.

The project started in Oct. 1966 and all contract field support was. completed June 30, 1973. The contracts terminated on Aug. 31, 1973. The 14 trade and industry schools now have in training a total of 7,000 young people in the mechanical, electrical and building trades. These schools will be graduating about 2,100 per year. The nine agricultural schools have in training a total of 4,000 in agronomy, horticulture, animal husbandry and farm mechanics. They will be graduating 1,250 per year. The two vocational teacher training colleges will be graduating about 280 teachers per year.

About 250 instructors and administrators of the present schools staffs have received advanced training in the U.S. during the life of this project. Nearly four fifths of the training costs were financed by the Royal Thai Government.

The end results of the project should be well trained manpower to meet the demands of the industry and agricultural development. There have been process evaluations of the project by IBRD and the Department of Vocational Education which have been quite favorable. This is significant because a similar project to improve four post-high school technical institutes is getting underway. The successful experiences gained with the processes used in the LIVE Project will be used in the new technical institute program.

A list of instructional materials produced under this project are contained in a separate report.

Agriculture Engineering Training Center

In conjunction with the school farm land development program, USOM provided one man-year of technical assistance in land leveling and irrigation. A complete farm plan was made for the 10 LIVE Project agriculture schools. In order to implement the plans, participants were trained and about \$500,000 worth of heavy equipment was provided. This activity is now coordinated with a West German Project at Bangpoon.

The Mobile Trade Training School Program 1965-1972

The Mobile Trade Training School (MTTS) Project was designed and developed by the RTG Department of Vocational Education (DOVE) in 1960 to provide occupational training for out-of-school youths and adults who were not eligible for training in formally graded vocational education and training programs. The MTTS units were established to serve the rural areas. In the more pupulated locations, Polytechnic Schools are provided for this purpose.

The categories in which skill training is offered are determined by a community survey. The length of time that a mobile unit remains in the same location is also based on the training needs of the community. Equipment and instructors are available to provide training in 18 different occupational areas. Training is offered in trades such as auto mechanics, electricity, radio and television repair, metal work, and carpentry. There are also offerings in cosmetology, barbering, dressmaking and tailoring, food preparation, typing, and bookkeeping.

Training is provided in a 300-hour cycle of instruction which is completed in a five-month term. There are two full cycles each year in all of the MTTS units. Classes are conducted twice daily in most of the 41 MTTS's; 09:00 to 12:00 hours and 17:00 to 20:00 hours. In a few selected schools, a third session is provided from 13:00 hours to 16:00 hours. Some of the units also offer a special intensive summer skill training course. Ordinarily, the MTTS units will offer only one basic training cycle of 300 hours in each specific trade area. However, exceptions are sometimes made in some communities so that students can take an additional 300 hours of more advanced work in certain trades to meet the local needs. The student tuition varies from \$1.50 to \$7.50 per course. This amount depends on the cost of practice material.

There are nine regional Polytechnic Schools, which are located in the larger population centers throughout the country. They are better equipped and staffed than the MTTS's. The Polytechnic Schools all offer the basic 300 hour courses for the out-of-school youth in the city. In addition they offer advanced training cycles of 300 hours of skill training in a specific trade area whereas the MTTS's usually provide only the basic 300 hours course. Those students who are successful in the basic courses offered in the rural MTTS's can continue to take advanced work in the regional Polytechnics. The teachers of the MTTS units and the Polytechnic Schools are graduates from the post-high school technical institutes. These teachers have completed 15 years of education which includes a generous amount of skill training. In addition, they have received an additional year of teacher training designed especially for the MTTS program. About 25 of the administrators and faculty members of the MITS and Polytechnic schools have received training abroad. Leadership development and teacher upgrading for MTTS personnel are usually provided at the Polytechnics during the summer session.

The present MTTS program is capable of providing training for about 41,000 persons each year. The Polytechnics can graduate about 10,000 students per year. Usually the students develop a saleable skill which makes it possible for them to get a job in local enterprises. In other instances, the graduate is able to conduct a paying business of his own.

USOM assisted in development of the MTTS Program by providing 7 man-years of technical assistance, commodities, and participant training for 25 persons. The Thai Government budget for the MTTS program has increased from \$3.7 million (\$190,000) in 1966 to \$18.79 million (\$940,000) in 1970. USOM input over the life of the project 1965-1972 was about \$2.8 million. Recently the MTTS's were transferred to the Adult Education Division, but the Polytechnic Schools remain with the Department of Vocational Education.

<u>Short-Term</u> <u>Specialists</u>

In addition to the major efforts described above, there have been a number of short-term consultants provided under the institutional contracts, personal services contracts and from direct hire sources. These specialists were brought in to assist in very specific areas and were in Thailand for periods ranging from two weeks to three months. Their activities have not been included in this report.

USOM Office of Education December 4, 1973

Vocational/Technical/Agricultural Education Reports

Prepared by RTG Vocational Educators and USAID Contractors Working with USOM Sponsored Projects

- 1. <u>Technical Institutes of Thailand,</u> 1959, Wayne State University Team.
- <u>Terminal Report of the SEATO Skilled Labor Project</u>, 1965, University of Hawaii.
- 3. <u>Final Report</u>, <u>Technical Training for Accelerated Development</u>, 1969, Philco Ford Corp.
- 4. <u>Development of Vocational Education in Thailand</u>, 1970, Lyle B. Pember.
- .5. <u>An Evaluation of LIVE Project and Related Services</u>, 1972, Hubert D. Reid.
- 6. <u>Systematic Long Range Program Planning for Vocational</u> <u>Education</u>, 1972, Dr. C. Thomas Olivo.
- 7. <u>LIVE Project Progress Reports</u>, 1967-1973, Department of Vocational Education.
- 8. <u>California State Polytechnic College Agriculture Education</u> <u>Contract Reports</u>, 1967-1973, California State Polytechnic College
- 9. <u>Oklahoma State University Trade and Industry Contract Reports</u>, 1968-1973, Oklahoma State University.

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10. <u>Mobile Trade Training Schools and Polytechnic Schools</u>, 1970. Vocational Promotion Division, MOE.

PARTICIPANTS TRAINED UNDER

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IBRD VOCATIONAL EDUCATION DEVELOPMENT PROJECT

UP-DATED TO JUNE 1973

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		PARTICIPANTS	TIME MONTHS	INSTITUTION	DEGREE	DATED RETURNED	TO POSITION
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А.	<u>A</u> G	RICULTURE					
	.1.	Mr. POTE Prombutra	- 18	Agri. Ed Cal Poly	M.A.	04/08/69	Bangpra
	2.	Mr. VINICH Chotsawang	. 12	Agri. EdCal Poly		02/02/68	Nan
	3.	Mr. NAPAKOON Siriwan	17	Agri. EdCal Poly	M.A.	03/10/69	Bangpra
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в.	<u>TR</u>	ADE AND INDUSTRY					
	1.	Mr. SEG Thongoun	19	Ind. Ed. Utah State U.	M. S.	02/07/69	Thewes
	2.	Mr. DECHA Sirirat	19	Ind. & Tech. Ed. Utah State University	M.S.	04/06/69	Thewes
	3.	Mr. SRISOT Panich	19	Ind. Ed. Utah State U.	M. S.	03/17/69	Thewes
	4.	Mr. KUMNUNG Sakhakorn	12	Tech. Ed. Utah State U.	B.S.	09/15/68	Thewes

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TIME DATED PARTICIPANTS DEGREE TO POSITION INSTITUTION MONTHS RETURNED AGRICULTURE Α. 1 Mr. SA-ARD Bothipan Cal-Poly M.A. 12/25/69 21 1. Burirum Mr. THAWIL Bua-Ngham 2, Agri. Ed..... Cal Poly 21 M. A. 03/27/70 Bangpra Mr. SUNAN Thongdee 3. Agri. Ed..... Cal Poly 21 M. A. 02/22/70 Bangpra Mr. WITHAYA Kanthawichai 4. 24 Agri. Ed. Mich. State U. M.S. 12/28/70 Bangpra TRADE AND INDUSTRY в. Mr. SOMSAK Idhirasunthorn 1. T & I Ed. O. S. U. M.S. 09/27/69 Thewes 24 Mr. CHITCHAI Sundhaswin 2. 24 T & I Ed....O.S.U. 02/11/69 Advanced M.S. study OSU. Mr. PRANOTE Nagamati 21 T & I Ed.....O.S.U. 3. M.S. 03/17/70 Evaluation and Planning Div. FY 69 . ٩ AGRICULTURE Α. Mr. AHNON Thiengtrong Agri. Ed..... Cal Poly M. A. 06/23/70 Chiengmai 1. 18

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	2.	Mr. PREECHA Gerdgrajang	18	Agri. Ed Cal Poly	M. A.	06/30/70	Nan
	3.	Mr. BURA Karnjanasirm ·	18	Agri. Ed Cal Poly	M. A.	05/30/70	Ladkrabang
	4.	Mr. PRANOTE Kulprasoot	18	Agri. Mech Cal Poly	Dip.	06/30/73	Nan
	5.	Mr. PRAJUAB Thong-place	18	Agri. Mech Cal Poly	Dip.	06/30/73	Pitsanuloke
	6.	Mr. SURAPHOLE Herabat	18	Agri. MechCal Poly	Dip.	06/30/73	Bangpra
	7.	Mr. TANIT Malisuwan	18	Agri. MechCal Poly	M.S.	06/25/71	Surin
	8.	Miss RATANA Harnjirakarn	18	Voc. Agri Cal Poly	M. S.	09/27/71	Nan
	9.	Mrs. PREEYA Ketudat	18	Agri. HE. (Food Serv.) Cal Poly	M. A.	07/31/71	Chiengmai
в.	TR.	ADE AND INDUSTRY					
	1.	Mr. PRAKORN Suddhiprakarn	18	Ind. EdO.S.U.	M.S.	03/22/71	Thewes
	2.	Mr. CHIT ladsung	18	T & I EdO.S.U.	M. S.	01/16/71	Thewes
X #1 14	. 3.	Mr. UMPHORN Pugdeechati	- 18	T & I Ed O. S. U.	M. S.	09/01/70	Prathumwan
	4.,	Mr. SUWAT Ratanabhoom ,	18	T.& I EdO.S.U.	M. S.	.09/05/70	Northern Bangko
	5.	Mr. SOMNUK Srisamoodkham	18	T & I EdO.S.U.	M.S.	01/19/71	Chiengmai
	6.	Mr. SONGDEJ Wongpanya	18	T & I EdO.S.U.	M. S.	01/13/71	Udorn

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		PARTICIPANTS	TIME MONTHS	INSTITUTION	DEGREE	DATED RETURNED	TO POSITION
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	7.	Mr. PRASIT Prommol	18	T & I EdO.S.U.	M. S.	01/19/71	Songkhla
	8.	Mr. VISIT Nantajiwarawat	18.	T & I EdO.S.U.	M. S.	01/19/71	Rajburi
	9.	Mr. SOMCHAI Pealsook	18	T & I EdO.S.U.	M. S.	06/14/70	Ubol
	10.	Mr. PRACHARK Pukdee-rut	18	T & I EdO.S.U.	M. S.	03/29/71	Nakornsawan
	11.	Mr. SUMOL Kongsawasdi	- 18	T & I EdO.S.U.	M. S.	03/18/71	Phuket
	12.	Mrs. BOONCHITTA Nalamlien	g 18	T & I EdO.S.U.	M. S.	01/14/71	Thewes
	13.	Mr. VICHIT Thongmitr	24	T & I EdO.S.U.	M.S.	06/30/71	Thewes
	14.	Mr. CHAMNIAN Kamchard	18	T & I EdO.S.U.	M. S.	01/17/72	Thewes (
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А.	AG	RICULTURE					
	1.	Mr. CHAMNONG Kosuwin	19	Agri. Ed Cal Poly	M.A.	11/17/71	Chumporn
	2.	Mr. DHAMNOON Boonthong	18	Agri. EdCal Poly	M. A.	01/25/72	Trang
	3.	Mr. BOONCHUAY Boonthong	12	Agri. Ed Cal Poly	M. A.	04/04/72	Nan
	4.	Mr. PRAWAT Yanachai	18	Agri. EdCal Poly	M. A.	01/30/72	Chantaburi

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	PARTICIPANTS	TIME MONTHS	INSTITUTION	DEGRE	E DATED RETURNED	TO POSITION
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2.	Mr. BOWORN Muangsuwan	6	Textbook & Teaching Material	-	08/04/7ָ2	MOE
3.	Mr. THONGCHAI Suwatmekin	ri	21 12 21	-	8 P.	11:
` 4.	Mr. PRAYOON Gosinjit	11	1) I) İİ	-	11 ·	11
5.	Mr. PINET Wichaidit	11	11 11 11	-	? T	<u>'</u> 11
6.	Mr. PINIT Sawangkam	11	11 13 11	-	11	11
7.	Mr. VIRA Layraman	- 11	11 11 11	-	31	11
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THIRD	COUNTRY STUDY TOUR					
1.	Mr. SOMSAK Idhiratsunthorn	2 wks.	Skill Competition -	Taipei -	05/09/72	MOE
	Mr. SRISOT Panich	11	11 11 13	11 <u> </u>	11	н
2.,	Mr. ARTORN Chandavimol	2 wks.	Skill Competition -		09/20/72	MOE
	Mr. SEG Thongoun	11	11 IT IT -	Japan " _	* 1	11
3.	Dr. SURAPHOL Sanguansri	; 1	Agricultural Educatio Association - Taiw		10/23/72	Banğpra

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		PARTICIPANTS	TIME MONTHS	INSTITUTION	DEGREE	DATED RETURNED	TO POSITION
	5.	Mr. PIAN Charnsuebsri	19	Agri. EdCal Poly	M. A.	01/31/72	College Div.
•	6.	Mr. SUMIT Mungkung	18	Agri. Ed Cal Poly	M. A.	12/26/ 7 1	Nakorn - sithamaraj
в	. <u>Tr</u>	ADE AND INDUSTRY				-	
	1.	~ Mr. TAWEEWAT U-Thawee	Ì8	T & I EdO, S.U.	M. S.	07/08/72	Evaluation and Planning Div.
•	2.	Mr. VICHIEN Tontraseney	18	T & I EdO.S.U.	M.S.	06/23/72	17 11
	3.	Mr. VICHAI Buasruang	18	T & I EdO.S.U.	M. S.	07/08/72	Samutprakarn
	4.	Miss KANITHA Wilairat	18	T & I EdO.S.U,	M. S.	07/08/ 7 2	DOVE Project
	5.	Mr. CHOOJAI Sriratana	18	T & I EdO. S.U.	M. S.	01/21/72	Evaluation and Planning Div.
	6.	Miss CHULEE Sa-Ngùannam	18	T & I EdO. \$. U.	M. S.	08/02/72	Thewes ,
==				FY 71			
<u>U</u>	.s.a.	STUDY TOUR					
• •	1.	Miss SUREE Suvarnasorn	6	Textbook & Teaching Material	, -	08/04/72	MOE

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TIME DATED DEGREE TO POSITION PARTICIPANTS INSTITUTION MONTHS RETURNED ==== Technical Level 01/12/73 MOE Dr. THANOO Savaengsakdi 2 1. -06/13/73 Mr. SURADEJ Visessurakarn Administration Technical MOE 2. 1 -Level Mr. PONGPUN Varasuntharosoth 3. Administration Technical 3 MOE Level Mr. EKACHAI Suntornpong 11 11 11 11 11 11 11 11 11 Mr. PICHET Khongthon 11 11 11 Mr. CHALIT Suwatti 11 111.5 11 11 11 11

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FY 73

MOBILE TRADE TRAINING SCHOOL PROJECT

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RURAL EDUCATION

FY 69

	PARTICIPANTS	TIME MONTHS	`` ` INSTITUTIQN	DEGREE	DATED RETURNED	TO POSITION
-		4.0				
1.	Mr. CHAROONG Phasuwan	<u>4</u> 0	Ind. Ed Indiana U.	Ph.D.	05/20/72	MOE - DOVÉ
2.	U.S.A. STUDY TOUR	6	MTŢS	-	06/07/70	MOE - DOVE
	 Mr. SAMARN Srasi Mr. PHAISARN Chitpraphai Mr. SURAPONG Gaiyagij Mr. AMORN Suriyachan 					
	5. Mr. CHARNCHAI Kulkamtorn					,
3.	Mr. SANONG Im-aim	18	Elect. Trng O.S.U.	Dip.	08/17/71	MOE - DOVE
4.	Mr. CHITAVEE Bunnag	18	Ind. Ed O.S.U.	Dip.	08/21/71	MOE - DOVĘ
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			FY 70 _			·
====				==========	a=+========, ,	==============================
1.	Mr. LERSAK Pothisarn	21	Printing - O.S.U.	Dip,	06/05/72	MOE - DOVE
24	Mr. SOMCHIT Sukavatano	15	Administration - Cal Poly	М. А.	12/09/71	MOE - DOVE

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E FY 70

• •	- 	PARTICIPANŤS	TIME MONTHS	INSTITUTIÓN	DEGREE	DATED RETURNED	TO POSITION
3,	Mr.	PRATHARN Kidjawatana	18	Ind. Ed O.S.U.	Dip.	03/25/72	MOE - DOVE
4.⁼	Mr.	SURINTRA lamhirun	18	Administration - O.S.U.	M.S.	02/21/72	MOE - DOVE
5.	М г .,	CHAVALIT Maneerat	18	Administration – Indiana U.	M . S.	03/02/72 ·	MOE - DOVE
б.*	Mr _: .	PAIROJ Punyarochana	18	Drafting - O.S.U.	Dip.	08/04/72	MOE - DOVE
7. [.]	Mr.	PUNYA Wrodlidakorn	20	T.V. Ed O.S.U.	Dip.	04/13/73	MOE - DOVE
8	•	SOMSAKDI Sangchan ⁵	21	Ind. Ed. 🗧 Texas State Technical Institute	Dip.	05/03/73 ·	MOE - DOVE
-	•	UDOM Chainok .	18	Ind. Ed O.S.U.	Dip.	03/01/73	MOE - DOVE
0.	М г.	SOMKIAT Naophen	22	Administration - Cal Poly	M. A.		MOE - DOVE
				FY 71 "			
1.	ĨMr.	BOONLERT Poplap	. 21	Wood Working - Catawbà Valley Technical Insti.		×	MOE - DOVER
2.	Mr.	CHALERM Juprachakorn		Auto Engine & Transmission Oklahoma State Technical			MOE - DOVER

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PARTICIPANTS	TIME MONTHS	INSTITUTION	DEGREE	DATED RETURNED	TO POSITION
3. Mr. AUN Pangputhipong	13	Machine Shop - O.S.T.	Dip,	10/20/73	MOE - DOVE
J. MI. AON Langpullipong	, 15		p,	то /20/10 ^ж	
4. ′Mr. BOONLUE Ngamsanga	21	Ind. Elect O.S.T.			MOE - DOVE
5. Mr. SUEBPONG Raksasab	21	Major Appliance Repair Oklahoma State Technical			MOE - DOVE
6. Mr. VARAVUT Thong-Ngern	21	Small Engine Repair Oklahoma State Technical			MOE - DOVE
7. Mr. VINAI Saihong	21	Auto Body Work - O.S.T.	Dip.	10/19/73	MOE - DOVE
8. Mr. KLA Somtrakul	13	Administration - Morehead State University	M. A.	08/21/73	MOE - DOVE
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PAMPHLETS', BOOKS AND OTHER EDUCATIONAL PUBLICATIONS OF THE SEATO SKILLED LABOR PROJECT

.8.

1. ACTIVITY ANALYSIS OF AUTO-MECHANICS

Dr. Thanoo Swaengsukdi Thai only 1961 pp. 35

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2. AUTO-MECHANIC TEACHER COURSE OUTLINE

Mr. Joseph Acosta English and Thai Illustrated Translation: Vichit Thongmitr 1959-60 pp. 320

3. COLOR DYNAMICS IN INDUSTRY

Mr. Pranote Nakamdee Thai only 1961 pp. 8

4. DEVELOPMENT OF A SCIENCE LABORATORY

Mr. J. B. Baker English only Illustrated 1964 pp. 104

5. DEVELOPMENT OF A SUPERVISORY PROGRAM FOR TRADE SCHOOLS

*

Dr. Claude H. Ewing English only January, 1964 pp. 20

6. ELECTRICAL CODE FOR THAILAND

Mr. Sommai Simargool Thai only Published By: Metropolitan Electric Authority 1960 pp. 8

7. JOB UNITS IN ARC WELDING Mr. Earvel S. Hoofman English and Thai Illustrated Translations: Mrs. Kamala Nutabhundhu Mr. Tongdee Tong-oun . . Miss Chivit Chavananonta Mr. Visutdi Yoonark -Miss Chivit Chavananonta Drawings: 1959-61 pp. 168 JOB UNITS IN OXY-ACETYLENE WELDING AND CUTTING Mr. Earyel S. Hoofman English and Thai Illustrated Translations: Mrs. Kamala Nutabhundhu Mr. Tongdee Tong-oun Miss Chivit Chavananonta Mr. Visutdi Yoonark 1959-61 pp. 192 ì 9. JOB UNITS IN SHEET METAL Mr. Earvel S. Hoofman English and Thai Illustrated Translation: Mrs. Chivit Rachatanavin 1959-1962 1 pp. 310 OCCUPATIONAL INFORMATION CHARTS. 4 Mrs. Kamala Nutabundhu Thai only 1965 pp. 35. POLICY OF ADMINISTRATION FOR 11. VOCATIONAL SCHOOLS Mr. Rabil Seetasuwan Thai only 1

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1964 pp. 181

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12. ROOF FRAMING. (BUILDING CONSTRUCTION) 19. TEACHER MADE TEST Mr. Banyatta Soonsinpai 1. 1. I Mr. Pranote Nakamdee Thai only Thai only 1961 · 1961 いてい アイトロー 注意通知 . pp. 71 13. _THE 18 SEATO PROJECT SCHOOLS: THEWES ESTABLISHMENT 20. À GUIDE IN SUPERVISION AND ADMINISTRATION . Thewes Staff . . Thai only Dr. Thanoo Swangsukdi Thai only 1961 pp. 301 1962 * * * . . . pp. '86 1 . 1 కళాలు, దిశివమాలు గాట : 上江 医心育性的情 Note:- One or more copies have 14. STEEL SQUARE (BUILDING CONSTRUCTION) been placed in the library of the Thewes Vocational Teacher, Mr. Pranote Nakamdee Education College. D.1. 1.19 Thai only 1961 - 18-5 JET 1 1, pp. 27 15. SUMMARY OF CONFERENCE NOTES SUPERVISION Second Coordinators Conference December 20-21, 1961 1. 19 1. pp. 10 16. SUMMARY OF COORDINATORS CONFERENCE NOTES-SUPERVISION OF PROJECT SCHOOLS English June 26-30 and December 20-21, pp. 9 pp. 9 بالأثير والمحاجرة ⁿ17′ TEACHERS HANDBOOK FOR HAND-TOOLS ، ج_ ۲ (BUILDING CONSTRUCTION) Mr. Sombut Chankasem ÚĮ. 1. 1963 Edit Berger 1 Jac 1 28 · - ,* pp. 72 1 in 1.11 TEACHERS HANDBOOK FOR POWER TOOLS 18. (BUILDING CONSTRUCTION) Mr. Rabil Seetasuwan v <u>1</u> v . . . • • • • 1 Thai only .í 1964 In Sect. pp. 181

TEXTBOOKS AND LESSON SHEETS

Technical and Trade Subjects

Prepared by

Theves Vocational Teacher Training College Division of Technical and Trade Schools Department of Vocational Education

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No.	Title of Books	Number of Subjects	Number of Copies Printed	Remarks
1	Automechanics	14	7,000	· · · · · · · · · · · · · · · · · · ·
2	Building Construction	-8`	9,200	
3	Machine Shop	4	5,000 ·	
4	Welding and Sheet Metal	ŤŤŤ	9,000	
5	Electricity	. 7	15,500	
6	Radio and Telecommunication	·15 · ·	23,600	
7 `	Science	7	20,500	、
8	Mathematics	б.	20,070	• •
9	Thai Language	6	-24,000	
10	English Language	3	10,500	
11	Social Study	- 4	11,500	
12	Architectural Design	 5	24,000	
- 13 [°]	General Knowledge	4	18,500	
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	<u>Total</u>	90	198,370	<u> </u>

TEXTBOOKS AND LESSONS

Automechanic Section

No.	Title of Books	Number of Copies	Remarks
1	Curriculum and teaching program	. 500	
2	Teacher's handbook on fuel pumping system	500	······································
3	Auto electricity	500	
4	Estimating the cost of auto repair	500	ź
5	Body repair and painting	[.] 500	· ·
б	Overhauling of engine	500	
7	The use of car and safety measure	500	
8	Power transmitting system 2	500	
9	Under carriage 2	500	.<
10	Gasoline engine	500	
11	Auto Electricity	500	
12	Diesel engine	500	•,
13	Under carriage 1	500	4
14	Power Transmitting System 1	500	
	· · · · · · · · · · · · · · · · · · ·	<u>7,000</u>	• •

Building Construction Section

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		Number of	
No.	Title of Books	Copies	Remarks
1	Curriculum and Teaching Program	800	·
2	Job sheet on building construction M.S. 4	500 · .	
3	Lesson sheet on building construction M.S. 5	800	
4	Job sheet on building construction M.S. 5	. 800	
5	Teacher's handbook on building construction M.S. 5	300	
6	Handbook on Woodwork	1,000	
7	Handbook on Woodwork Machine	2,000	
8	Survey	3,000	
		. <u>9,200</u>	

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Machine Shop Section

No.	Title of Books	Number of Copies	Remarks
1 2 3	Curriculum and teaching program Testing sheet on machine shop Introduction to mechanical instruments	500 1,000 2,000	
4	Materials for machine shop	<u>1,500</u> <u>5,000</u>	-

Welding and Sheet Metal Section

		Number of	
No.	Title of Books	Copies	Remarks
1	Curriculum and Teaching Program	500	
2	Job sheet of M.S. 4	1,000	
3	Job sheet of M.S. 5	1,000	
4	Arc Welding Unit	1,500	
5	Sheet Metal Unit	- 1,500	
6	Hobart's Handbooks on Welding	3,000	
7	Handbook on Making Teaching Time Table		
		<u>9,000</u>	

Electricity Section

		Number of	
No.	Title of Books	Copies	Remarks
1	Curriculum and Teaching Program	500	
2	Operation sheet and job sheet on introduction to electricity	5,000	
3	Introduction to electricity	2,000	
4	Job assignment sheet on introduction of electricity	2,000	
5	General electricity	2,000	
6	Principles and service of refrigerators	2,000	
7	Ammeters	2,000	
		<u>15,500</u>	

Page	4
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Number of Title of Books Copies No. Remarks 1 Curriculum and Teaching Program .500 2 · 500 Handbook on FM Transmitter 3 Handbook on AM/FM receiver 500 4 Job sheet on AM/FM receiver 800 5 Handbooks on sound systems 500 6 Job 'sheet on sound systems 800 4,000 7 Transister 8 Introduction to electronics . 2,000 9 General knowledge on radio 2,000 10 Pulse technique 2,000 11 Electronic tubes and circuits experimentation 3,000 12 Experiments on Electronic Tester 3,000 13 3,000 The 'theory of television 14 Job sheet on electricity 1 500 15 Job sheet on electricity 2 <u>500</u> 23,600

Radio and Telecommunication Section

Science Section

No.	<u>Title of Books</u>	Number of Copies	Remarks
1	Curriculum and Teaching Program	500	
	Mechanics 1	4,000	د *** - • - •
3	Mechanics experimentation	4,000	
4	Heat 1-2	4,000	
5	Heat experimentation 1-2	4,000	*
6	Mechanics 3	2,000	
7 -	Mechanics 4-5	2,000	
	· · · · · · · · · · · · · · · · · · ·	<u>20,500</u>	-

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Mathematics Section

3.7		Number of	
No.	<u>Titles of Books</u>	Copies	Remarks
1	Mathematics on Trades	8,000	
2	Mathematics on Building & . Construction M.S. 5	3,000	
3	Technical Mathematics on Trades M.S.5	5,000	
4	Mathematics on radio	2,000	
5	Mathematics on Building Construction M.S. 6	2,000	
6	Handbook on Mathematics M.S. 4	70	
		<u>20,070</u>	

Thai Language Section

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No.	Title of Books	Number of Copies	Remarks
1	Curriculum and Teaching Program	500	
2	The Planning on Teaching Thai Language	5 0 0	
3	Thai Reading M.S. 4	11,000	
4	Thai Reading M.S. 6	6,000	
5	The rules of the language and the use of language M.S. 4	3,000	
6	The rules of the language and the use of language M.S. 6	E <u>3,000</u>	
		<u>24,000</u>	

Technical English Section

No.	Title of Books	Number of Copies	Remarks
1	Curriculum and teaching program	500	
2	Technical English Reading M.S. 4	5,000	
3	Technical English Reading M.S. 5	_5,000	
		<u>10,500</u>	

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Social Study Section

No.	Title of Books	Number of Copies	Remarks
1	Curriculum and Teaching Program M.S. 5-6	500	
2	Handbooks for M.S. 5-6	500	
3	Social Study of M.S. 5	6,000	
4	Social Study of M.S. 6	4,500	
		<u>11,500</u>	

Designing Section

No.		Number of Copies 2	Remarks
1	Designing of every trade M.S.4	10,000	
2	Designing on electricity-radio	3,000	
3	Designing on mechanics part 1	3,000	
4	Designing on mechanics M.S. 5	5,000	
5	Designing on building construction M.S. 5	_3,000	
		<u>24,000</u>	

General Subjects Section

No.	Title of Books	Number of Copies	Remarks
1	Curriculum of industrial trade	:1,000	
2	Successive steps in preparing Lesson Sheets	2,000	-
_ 3	Pictures of safety measure in factory	500	14 × 1 ×
4	Progress Chart	<u>15,000</u>	,
		<u>18,500</u>	

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LIST OF PUBLICATIONS

Prepared by

Bangpra Agricultural College <u>Chonburi, Thailand</u>

A. Journals and Newsletters

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	1.	"The Bangpra Center" (Thai) Bimonthly 75 p. Cir. 1000; 1964 to date					
	2.	"Vo-Ag Newsletter" (Thai) Bimonthly 30 p. Cir. 100; 1971 to date					
	з.	"Rotaract Bulletin" (Thai) Bimonthly 20 p. Cir. 200; 1972 to date					
	4.	"Anusorn Bangpra" (Thai) Yearbook 200 p. Cir. 200; since 1962					
	5.	"The Bangpra Banner" (English) Monthly 5 p. Cir. 100; 1967 - 1970					
	6.	"Beat the Drum" (English) Monthly 10 p. Cir. 200; 1971 - 1973					
в.	Gen	eneral Information on Bangpra and Agricultural Education					
	1.	"Bangpra Agricultural College" (Thai) - Bangpra staff 62p.1970					
	2.	"Bangpra Agricultural College" (English) - Suraphol Sanguansri, Ph.D. 11p.1970					
	3.	"Vocational Agriculture in Thailand" (English) - Suraphol Sanguansri Ph.D. 8p.1970					
	4.	"Agricultural Education in Thailand" (Thai) - Suraphol Sanguansri, Ph.D. 25p.1971					
	5.	"Technical Education in Agriculture" (Thai) - Suraphol Sanguansri, Ph.D. 50p.1973					
	6.	"Agricultural Teachers and Theirs Administrators" (Thai) - Suraphol Sanguansri, Ph.D. 25p.1					
	7.	"Introducing Bangpra Agricultural College" (Thai) - Bangpra staff, 60p.1973					
	8.	"Bangpra Agricultural College - Student Manual" (Thai) - Bangpra staff, 60p.1973					
с.	Tec	hnical Bulletin and Teaching Manual, by the Bangpra staff					
	1.	"Vegetable Production" - Chanai Yodpetch M.S. 187p.1971					
	2.	"Growing Asparagus" - Chanai Yodpetch M.S. and Thawil BuaNgarm M.A. 25p.1971					
	3.						
	4.	"Thai 101 (Grammar)" - Sangworn Laprabang B.Ed. 136p.1971					
	5.	"Thai 102 (Literature)" - Sangworn Laprabang B.Ed. 108p.1972					
	6.	"Thai Orchids" - Sanan Chaidee B.S. 153p.1972					
	7.	"Plant Hormone" - Chanai Yodpetch M.S. 34p.1972					

8.	"Principles of Agronomy"	
	- Suraphol Sanguansri, Ph.D.	.143p.1973
9.	"Audio-Visual Aids" - Pote Onsumlee B.Ed.	<u>7</u> 3p.1973
10.	"Methods of Teaching Agriculture" - Nopakoon Siriwan M.A.	54p.1973
Ĭ1:	"Entomology" - Thongpian Siriwan B.S.	78p.1973
12.	"Landscape Gardening" - Pote Prombutr M.A.	123p.1973
13.	"Orchid Culture" - Sanan Chaidee B.S.	160p.1973
D. Rej	ports - by the Cal-Poly Specialists and the Bangpra staff	
1.	Recommended Irrigation Program for Bangpra Agricultural Coll	ege
	~ John L. Merriam and Samran Meesorn-lem,	40p.1969
2.	Recommended Irrigation Program for Kalasin Agricultural Scho - John L. Merriam and Samran Meesorn-lem,	o1. 16p.1970
3.	Recommended Irrigation Program for Surin Agricultural Colleg - John L. Merriam and Samran Meesorn-Iem,	e. 40p.1970
4.	Recommended Irrigation Program for Chantaburi Agricultural S - John L. Merriam and Samran Meesorn-Iem,	chool. 24p.1970
5.	Recommended Irrigation Program for Chumporn Agricultural Col - John Merriam and Samran Meesorn-Iem,	lege 40p.1971
б.	Recommended Irrigation Program for Chiengmai Agricultural Co - John L. Merriam and Samran Meesorn-lem,	11ege 24p.1971
7.	Recommended Irrigation Program for Nan Agricultural School. - John L. Merriam and Samran Meesorn-Iem,	- 34p.1971
8.	Recommended Irrigation Program for Pitsanuloke Agricultural - John L. Merriam and Samran Meesorn-lem,	School 25p.1971
9.	Recommended Irrigation Program for Ladkrabang Agricultural So - John L. Merriam and Samran Meesorn-Iem,	chool. 24p.1971
10.	Recommended Irrigation Program for Nakorn Si Thammarat Agric College - John L. Merriam and Samran Meesorn-lem,	
, 11.	"Farm Management - Student workbook" (Thai) - Raymond Rhodes and Nopakoon Siriwan	19p.1970
12.	"Student Farm Record Book" (Thai) - Raymond Rhodes and - Nopakoon Siriwan	.32p.1970
13.	"Problems in Scheduling Farm Equipments in Thailand" (English - Donald B. McCann	-
· 14.	"FFT - What it's all about?" (English) - George B. McNeely and Boonlert Jugsurat	.42p.1972
、 15.	"Leadership Training for Future Farmers" (English) - George B. McNeely	30p.1972
16.	"Leadership Training for Future Farmers" (Thai) - George B. McNeely, Boonlert Jugsurat, Boworn Muangsuwan,	-

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17.	"Student Organization Manual" (English) - George B. McNeely 13	5p.1972
18.	."Student Organization Manual" (Thai) - George B. McNeely and Boworn Muangsuwan 78	8p.1972
19.	"Understanding FFT, Workbook" (English) - George B. McNeely 43	3p.1972
20.	"FFT Chapter Officer Handbook" (English) - George B. McNeely 33	1p.1972
21.		4p.2515
22.	"Resource Unit on How to Use Paliamentary Procedure" - George B. McNeely 28	8p.1972
23.	"Successful Public Speaking" (English) - George B.McNeely 38	8p.1972
24.	"Successful Public Speaking" (Thai) - George B.McNeely and Boworn Muangsuwan 23	8p.1972
25.		1p.1973
Ż6.	"Establishing Space and Utilization Standards for Organized Class Instruction" (English) - George B.McNeely	8p.1973

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