

フィリピン人造りセンター
計画打合せ調査団報告書
別冊資料編

**PHRDC Report
for the
JICA Consultation Mission
(Sept. 8—17, 1986)**

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International Cooperation Association

国際協力事業団

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国際協力事業団		
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A. Mandate

A. THE MANDATE

By virtue of Executive Order No. 785, dated 19 March 1982, the Philippine Human Resources Development Center was mandated to be the venue of the country's participation in the ASEAN-wide project for human resources development. As much, it has been tasked by the Philippine Government to pursue the following objectives:

- a). ensure that human resources development efforts are productively applied to new and existing enterprises;
- b). strengthen established infrastructure for training related to human resources development and to effect the networking of such existing training facilities;
- c). encourage training curricula and programs responsive to industry demands;
- d). source and negotiate for training opportunities with Japan and with other ASEAN countries as a means of enhancing technical cooperation and technology transfer;
- e). provide and facilitate information flow not only among local training agencies but also with Japan and other ASEAN countries.

Further, E.O. 785 provides for PHRDC's development of skills and commercialization of technologies and identification of programs in this regard from time to time. Initially, the EQ identified four existing

priority programs, namely:

- a) Program I - Human Resources Management
- b) Program II - Seafarming
- c) Program III - Shelter and Construction Manpower
- d) Program IV - Cottage and Light Industry

Through the Records of Discussion signed September 9, 1982 the Government of the Republic of the Philippines and of Japan formalized their agreements to provide technical cooperation assistance to the Philippine Human Resources Development Project, and bound themselves to the provisions of the agreement.

1. PHRDC

Under the technical cooperation agreements (1982-1987), PHRDC has for its primary goals:

- a). the training of teacher-trainers, instructors and extension workers who will accelerate and mobilize livelihood enterprises in the rural areas through the diffusion of innovative and appropriate technology in the four priority Programs, and,
- b). the strengthening and acceleration of cooperation activities among ASEAN countries through the diffusion of innovative and appropriate technology for rural development in the region.

Specifically, the above goals are concretized in turn in the goals of the Programs which are as follows:

2. Program I

- ✓ a). Network and accredit training institutions,

- facilities and experts/training;
- b). Establish a data bank and information system;
 - c). Conduct training for ASEAN nationals in the four Program areas;
 - d). Conduct orientation courses including Japanese language;
 - e). Curricula development, and
 - f). Develop and supply audio-visual educational materials for training use of the PHRDC programs.

3. Program II

Research and develop oyster technology (cultivation, evening-up, depuration and storage of oysters).

4. Program III

Train teacher-trainers, craft-teachers, engineers and technicians in seven identified construction areas, namely, heavy equipment operation, heavy equipment maintenance, plumbing, erection and rebar, welding, masonry and industrial electricity.

4. Program IV

Train trainers and technicians in the field of woodworking, bamboo and rattan industries.

B. Accomplishments

B. ACCOMPLISHMENTS

For the period 1981-1982 negotiations, project formulation with local ministries, ASEAN countries and later with various missions from Japan were the main activities of the PHRDC Secretariat (created by LOI 1120).

With the creation of the Center thru Executive Order 785 in March 1982, the Exchange of Notes for the Grant Aid and the Records of Discussion for the Technical Cooperation were accomplished.

From 1983-1984 building construction/renovation and receipt of equipment under Grant Aid were the main activities of the Center. Formation of counterpart project teams, acceptance of Japanese experts and sending of Filipino staff to Japan for training were likewise accomplished. The three (3) workshops of NACIDA were inaugurated by April 27, 1984.

With the official turn-over of the other three (3) completed facilities by Japan in December 1984, the participating agencies and ministries prepared for inauguration and opening of the training centers at these dates:

National Center/Program I	-	February 12, 1985
Seafarming Research and Development Center	-	February 25, 1985
Construction Manpower Development Center	-	June 14, 1985

To date the Center and its four (4) programs have conducted various training, workshops and research activities in various fields. (Please refer to the following pages.)

1. Technical Cooperation

B.1 TECHNICAL COOPERATION

B.1.1 Dispatch of Experts

The Center had accepted fifty (50) long and short term experts who were assigned to the different Programs to provide technical assistance in the preparation of training programs on the specified technologies.

YEAR	!	LT	!	ST
1983	!	9	!	0
1984	!	3	!	10
1985	!	5	!	14
1986	!	3	!	6
TOTAL	!	20	!	30

LT - LONG TERM
ST - SHORT TERM

B.1.2 Counterpart Training in Japan

YEAR	!	NO. OF TRAINEES
1982	!	4
1983	!	16
1984	!	25
1985	!	18
1986	!	10
TOTAL	!	73

B.1.3 Supplementary Equipment (in million yen)

PROGRAM	!	1983	!	1984	!	1985	!	1986
I	!	4051	!	1588	!	9223	!	12009
II	!	7696	!	2216	!	0	!	6579
III	!	2466	!	0	!	14497	!	17095
IV	!	2041	!	0	!	3705	!	12956
TOTAL	!	16,254	!	3804	!	27,425	!	48,639
Freight Insurance						767		2,432
						28,192		51,071

OVER-ALL TOTAL = ¥ 99,301

2. Project Outputs

A. CENTER:

1. Research

The Center has conducted research studies on:

- a). "Industrial Trends of Wood, Bamboo and Rattan in the Philippines" (covering 1961-1980)
- b). "Industrial Trends of Wood, Bamboo and Rattan in the Philippines" (covering 1980-1984)
- c). "Construction Trends in the Philippines"
- d). "Manpower Structure in Construction Industry"
- e). "Comprehensive Survey of Wood, Bamboo and Rattan Producers in the Philippines"

2. Expert's Reference Materials Development

Assisted in the development of the following Reference Materials in cooperation with the Japanese Experts:

- a). Bamboocraft
- b). Woodcraft

3. Training

	Participants
a). First PHRDC Pre-Departure Orientation	18
b). Japanese Language Survival Course (2x)	18
c). 2nd PHRDC Pre-Departure Course	7
d). Staff Development	
1. Training on Classroom Management Technique	18
2. Seminar-Workshop on Training Management	30
3. Management by Objectives Training Seminar	85
TOTAL	<hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 176

CENTER

4. Public Relation Activities

- 1). Hosting of Local Seminars.
- 2). Briefing and Tour of Local and International visitors.

B. PROGRAM I

INFORMATION AND COMPUTER SERVICES DIVISION

1. Training

	Participants
a). Introduction to Computer Technology	24
b). Summer Computer Programming	19
c). Traineeship Program	6
d). Computer Appreciation Course	19
e). Staff Development	
1. On-the-Job-Training for NEC 350 Computer System	23
2. Wordstar Course	9
TOTAL	<u>100</u>

2. System Development

- a). Skills Inventory System (SIS)
- b). Personnel Information System (PIS)
- c). Library Information System (LIS)

3. Other Systems

- 1). Environmental Information System for Program II
- 2). Equipment Inventory System
- 3). Administrative System
- 4). Guests File

MULTI-MEDIA DIVISION

- a). PHRDC Briefer (Edition 1,2,3) and Programs II, III Briefer
- b). Video Tape Recording Program on:
 - b.1 Overhead Projector and Slide Projector Operation
 - b.2 Camera Operation and Maintenance
 - b.3 VCR Operation and Maintenance

c). Handbook on:

- c.1 Video Cassette Recorder Operation and Maintenance
- c.2 Video Camera Operation and Maintenance
- c.3 Basic Video Production (Edition 1)
- c.4 Basic AV Production (Edition 2)
- c.5 Basic Print Production (Edition 1)

d). Photo and Video documentation of all the activities of Center and Programs

e) Technical assistance in:

- e.1 Production of Video programs
- e.2 Audio-recording
- e.3 Editing
- e.4 Teaching materials preparation

f). Training

	Participants
1). ASEAN Committee on Culture and Information	18
2). MMD Apprenticeship Program	9
3). MHS-Information and Communication Development Division	7
4). Audio-Visual Equipment Operation Training	17
TOTAL	<u>51</u>

C. PROGRAM II

SEAFARMING AND RESEARCH DEVELOPMENT CENTER

1. Research and Development

- a). Conducted environmental surveys which resulted to the establishment of four (4) regular oyster growing stations in Dawel, Gayaman, Bolinao and Sual all in Pangasinan.
- b). Research and Development in the field of oyster culture, depuration, and processing which are perceived to ultimately result into th development of adoptive seafarming technology relevant to the requirements of the nation.
- c). Constructed thirty two (32) modules in 4 regular stations.
- d). Research studies on different processing methodologies for oyster.
 - 1. Smoking
 - 2. Drying
 - 3. Fermenting
 - 4. Oyster sauce studies
 - 5. Spoilage pattern
 - 6. Packaging/control/consumer tests

2. Training

	Participants
a). On-the-Job Training on Basic Oyster Farm Methods	10
b). On-the-Job Training on Oyster Processing and Depuration	5
c). On-the-Job Training on Environmental Survey	4
d). Orientation on Microbiology Equipment and Laboratory Techniques	3
TOTAL	22

D. PROGRAM III

CONSTRUCTION MANPOWER DEVELOPMENT CENTER

1. Teaching Materials Development

Developed and produced 185 teaching materials and other learning elements on 8 construction areas:

- | | |
|--------------------------------|-------------------------------|
| a. Heavy Equipment Operation | 17 Learning Elements |
| | 15 Slides |
| b. Heavy Equipment Maintenance | 15 Learning Elements |
| | 20 Slides and Transparencies |
| | 5 Films on Safety for HEOXHEM |
| | 5 Films on Heavy Equipment |
| c. Welding Technology | 15 Learning Elements |
| | 5 Beseler Films on Welding |
| d. Industrial Electricity | 6 Learning Elements |
| e. Steel Reinforced Concrete | 9 Learning Elements |
| f. General Construction | 3 Films |

2. Training

	No. of Participants
a. Faculty Development Seminar	
a.1 Teaching Methodology Upgrading	20
a.2 Work Attitude Development	68

	Sub-Total: 88
b. Pilot Teacher Training Program	Sub-Total: 42
c. Regular Teacher Training Program (RTTP)	
c.1 First RTTP	52
c.2 Second RTTP	53
c.3 Third RTTP	65
c.4 Fourth RTTP	67

	Sub-Total: 299
	Grand Total: 387
	===

3. Improvement/Addition/Extension of Training Programs

- a. Addition of electro-pneumatic training facilities to the Industrial Electricity workshops to effect further upgrading of the RTTP Program and to permit offering of specialization courses.
- b. Addition of electrical machines (motors/controls) to enhance training.
- c. Undertaking of production training activities in order to expose trainees to actual construction conditions and optimum usage of materials.
- d. Improve security measures/devices in the Center to enhance protection against pilferage.

4. Infrastructure Expansion

- a. Construction of temporary athletic facilities to supplement training with physical development activities.
- b. Construction of an electrical water reservoir of 10,000 gallon water tank capacity to provide sustained water supply during periods of power interruption.
- c. Purchase and installation of a 75-kw emergency generator to provide continuous power for vital operational activities.
- d. Construction of a 200 meter long covered walk-way from the Administration Building to the Dormitory/Canteen.
- e. Construction of permanent athletic facilities such as basketball court, tennis court, swimming pool, mini-gymnasium, etc. to provide trainee/trainor recreational facilities for physical conditioning and relaxation. These facilities will be completed by December 1986.
- f. Continuous acquisition of additional training equipment/tools consumables to steadily improve/develop existing programs and for targetted expansion to specialized courses.

E. PROGRAM IV

COTTAGE AND LIGHT INDUSTRY DEVELOPMENT

1. Training

a). In-House Training	Participants
a.1 Woodcraft	
a.1.1 Specialized Course on Kiln Drying	4
a.1.2 Specialized Training on Woodworking	13
a.1.3 Basic Woodworking Machine Operation	4
a.2 Rattancraft	
a.2.1 Training on Rattancraft Technology	1
a.3 Bamboocraft	
a.3.1 Basic Bamboocraft Machinery Operation	14
b). General Courses	
b.1 Regional Basic Technical Training on Woodworking, Bamboocraft and Rattancraft	32
b.2 Advanced Technical Training (Effective Teaching Technologies on Woodworking, Bamboocraft and Rattancraft)	30
b.3 Basic Design Seminar	27
c). Trainings Conducted by Short Term Expert	
c.1 Wood Machinery Operation and Maintenance	18
c.2 Training on Rattan Furniture	7
c.3 Specialized Training on Uphols- tery	14
TOTAL	<u>164</u>

PROGRAM IV

COTTAGE AND LIGHT INDUSTRY DEVELOPMENT

d). Private Sector

	Participants
d.1 Basketry (Wicker and Split Rattan)	13
d.2 Basic Stationary Woodworking Equipment	4
d.3 Woven Bamboo Basketry	1
d.4 Furniture Structure and Assembly Method	12
d.5 Rattan Joints and Bindings	8
d.6 Rattan Material Preparation Technique	1
d.7 Improved Methods in Processing Rattan Derivatives	3
d.8 Bamboo Furniture Construction	1
TOTAL	<u>43</u>

2. Handouts and Manual Development

Prepared, developed and finalized 383 materials in printed and audio visual forms

WOODWORKING	- 33 kinds of handouts printed 10 transparencies finished 180 slides 5 beta tapes edited
BAMBOOCRAFT	- 20 kinds of handouts printed 19 transparencies finished 37 slides 2 beta tapes edited
RATTAN/CRAFT	- 18 kinds of handouts printed 18 transparencies finished 36 slides 5 beta tapes edited

PROGRAM IV

COTTAGE AND LIGHT INDUSTRY DEVELOPMENT

3. Establishment of PHRDC-assisted Regional Cottage Industry Technology Center (RCITC)

RCITC II - Woodworking - Shipment of 34 wood equipment and
Tuguegarao, Cagayan Valley tools on Nov. 4/83, including
Audio Visual equipment.

Planning, construction and
instalation of equipment Jan. -
May/84. Inauguration of the
center May 7, 1984.

Establishment and Operation - Negotiation and donation of the
of RCITC I - Bamboocraft building by Mariano Marcos
Batac, Ilocos Norte State University (MMSU) -
September.

Shipment of Audio Visual
equipment on August 24, 1984.

Shipment of 26 Bamboo equipment
and tools on November 14, 1985. 7
units were fabricated at CITC by
Metal Section in 1985 as follows:

1. Wood lathe
2. Circular Saw
3. Drum sander
4. Disc sander
5. Inflatable sander
6. Outer know remover
7. Resin extraction vat

Installation and test run
November 18, 1985 to December
6, 1985.

Inauguration of the center
December 18, 1985.

RCITC X - Rattancraft at - Negotiation and finalization of
National Manpower and Youth Memo of Agreement - 1985.
Council (NMYC)-Kabataang

Barangay (KB) Demonstration - Shipment of 7 rattancraft equip-
Center Tagoloan, Misamis ment and tools on August 29, 1985.
Oriental

PROGRAM IV

COTTAGE AND LIGHT INDUSTRY DEVELOPMENT

- RCITC XI - Woodworking** - Negotiations conducted and Memo
Buhisan, Tibungco, Davao City of Agreement signed on
September 4, 1985.
- Implementation deferred due to
cash flow problem of NACIDA.

C. Project Assessment

PROJECT ASSESSMENT

Program Thrusts

Since its inception in 1982, the PHRDC Project has been a major force in furthering the national goal of totally developing the country's human resources. Training Centers have been built in various program sites to serve as institutions for inter-action and development. Equipped with the latest technology in various areas of specialization, the training Centers facilitate the transfer of knowledge and skills among the identified groups of clientele.

A great number of training programs have been conducted by the Center and its programs in fulfillment of its commitment to further the lot of the populace. The Center has manifested zealousness in its attempt to facilitate the delivery of services to the different programs. It has implemented a number of training programs geared towards the enhancement of training skills among the trainors of the Center. Particular attention is given to the types of skilled manpower needed by the industry and those that encourage entrepreneurship in the countryside.

With this in mind, the Center has trained a total of 69 Filipino counterparts responsible for the transfer of technology to local staff as well as other government

and private clientele thru training programs and research. Philippine Human Resources Development Center under the Record of Discussion agreements is mandated to train a total of 454 trainors over a period of five (5) years. To date, a total of 68 trainees or 15% more of the targetted number have benefitted from its training under the regular program and 275 personnel under the staff development program. (For particular assessment of trainees pleaser refer to Appendix II).

Research has also been an integral part of the Center's activities making valuable contributions to the efforts of the Project in identifying specific areas which it could approximately address its efforts.

Technology Transfer

Japanese experts, who have come to share their expertise, have likewise been a primary factor that has determined the Project viability as a tool for realizing the country's goals.

Inspite of language barrier, however transfer of technology has been carried out smoothly.

To ensure the training staff's responsiveness to the achievement of the Project's objectives, they are constantly trained in the latest techniques in their respective fields with the arrival of Japanese long and short term experts and through participation in training conducted in Japan. These experiences develop within the

trainees the capacity to be more attuned to the various technologies and skills which may be adopted to service the needs of the Country. Upon their return to the Philippines, the trainees are better prepared to handle the delicate task of training the country's human resources into more productions elements of the society. Counterparts produced softwares and learning materials for use in their training programs (for details of softwares developed see Appendix III).

Japanese softwares on specific expertise available would have been useful if translated into English which would facilitate effective implementation of training programs.

The high technology equipment and machineries donated by Japan have been very useful to the Programs, however, adoption and innovation of these to suit local requirements are programs responsibilities which may require Japan's assistance. Operation of equipment and machineries donated can be handled 100% by counterparts, however, maintenance capability is only 75%; this can be accounted for the lack of supplementary tools.

Issues and Problems

However, the operationalization of the whole Project has some limitations. The present economic difficulty is a major consideration that has affected the organization.

1. Philippine Human Resources Development Center and its Programs budget releases for 1986 is merely half of what has been requested.
2. The warranty for the maintenance of the grant-aid equipment has already expired. From now on, PHRDC has to shoulder the cost of maintenance and repair of equipment. In fact, some of the equipment need repair but due to financial constraints it cannot be given priority.
3. While PHRDC is grappling with economic difficulties, the expiration of the technical cooperation agreement looms. It must now make strategic moves to plan for its survival beyond 1987. Nevertheless, it is still bound to fulfill its commitment or renegotiate them with the Japanese for the remaining years of the technical cooperation period.

As the organization has grown and the interrelations among the working groups and the demands on them become more complex, there arises a need for a corresponding shift in the organizational structure to fill organizational requirements.

There is also a need to look at the individual work situation in each of the Program.

PROGRAM I

Rather than relegate itself to merely servicing the data bank and information system, and learning materials production requirements of the other Programs, Program I sees great opportunities in promoting computer and multi-media technologies as technologies in their own right, themselves worthy contributions to the human resources development effort of the country.

On a per program basis, Program I as a support service has trained a total of 12 counterparts who are then responsible for computer and multi media operations. However, 7 or 37% of those trained has left the Project which somehow affects the operations of the Program.

COMPUTER

The first year of the operationalization of the computer component of Program I was spent on technology acquisition. This is the period where the staff of Program I's Information and Computer Services Department learned to operate the NEC-350 mainframe system, familiarized themselves with software system and tested its technical capabilities in data processing.

Operations of Computer facilities was started only in 1985. ICSD has designed and developed the regional information systems and data banking facilities for PHRDC. However, the substantial utilization of the computer facilities was limited by the fact that the PHRDC organization was still evolving its final,

structure; the minimal computer requirements of the other Programs that entails the use of NEC 350; the scant data to be processed within PHRDC.

Although ICSD has developed computer systems, it should be understood that data banking requires more time for it to be appreciated.

Because of prevailing situations, ICSD has decided to shift its directions into computer education rather than systems development, which is an ascendent market activity. ICSD's initial efforts towards computer training were also undertaken, having developed and conducted its introductory computer courses (equivalent to EDP).

The maintenance contract with the NEC assigned local maintenance company has already expired. Because of the great amount involved in the renewal of the contract, which is now to be responsibility of the Philippine government, the viability of maintaining the mainframe is in question for 1986 however, offering of computer services to institutions or individuals can generate income for the maintenance of the computer system.

MULTI MEDIA

The video revolution has reached the Philippines. There is an increase in the use of video in mass

communications. At home, in advertising, and in training, although still on a limited basis, video is fast becoming the choice as a medium. There is a great potential for development of video production skills training as well as training for video technology. The Multi Media Division of Program I boasts of the advanced video production capabilities and facilities they have acquired through grant-aid. In fact, they have acquired some of the most sophisticated video production facilities. The training of its senior staff in Japan exposed them to the state-of-the-art of video techniques and hardware. Even with problems such as depleted manpower, limited budget and need for further staff development in the areas of ETV conceptualization and planning as well as program evaluation, it is precisely at this time that the foundations must be laid down for the Program I-MMD's bid to become an ETV Training and production center for the Philippines and the ASEAN region.

PROGRAM II

As Program II begun its operations last year, oyster farming in the country has been given a new impetus. Program II can be seen as a purposive move to upgrade the rather primitive local methods of oyster farming in the country's bid to bolster the quantity and quality of its oyster production for the promising world market.

Program II has trained a total of eight (8) counterparts personnel and one (1) is on training to undertake research and development activities as well as training of local personnel. To date of these nine (9) counterparts, 3 or 33% of those trained have left the Program. However, the locally trained staff have been filling in the gap for them substantially.

The experiments on innovative oyster farming methods conducted by Program II at Lingayen Gulf on its first year of operations have not been conclusive. There is a need to test and further validate the results among the local fishermen at Lingayen. Thus, there arises a need for transfer of the technology, even at least initially to selected local fishermen, along with the foregoing activities. The forward and backward research and development activities (environmental survey, hatchery, microbiological, processing studies) must be continued and likewise disseminated. Even as it conducts such research and development activities, Program II nevertheless gathers data applicable to other related

bivalves and fishes, which can be disseminated to other fishing sectors later on. Outputs of research activities shall then be used for dissemination through an outreach program on appropriate technology.

PROGRAM III

In general there is a broad consistency between the concern of the Record of Discussions and the thrusts of agency programs. It is observed that while the thrusts of such programs are generally relevant some gaps still exist in specific areas of concern such as in the field of construction which require the offering of courses that are highly specialized and of immediate need to the demand of the industry. These specialized areas are not covered under the terms of agreement.

The demand for Filipino construction workers abroad, particularly in the Middle East, has decreased due to economic reversals being suffered by these nations. As placement opportunities become scarce, the competition for them becomes more stiff. The only way the Filipino workers can compete with their foreign counterparts is by showing superiority in skills. It is not surprising that the response to Program III has been overwhelming, if we are to base it on the number of applications for its courses.

The overwhelming response to Program III's training programs enabled it to train a total of 299 trainors or 93% of the targetted number of trainors of about 320. The 299 trainors were trained by the Japan trained counterparts numbering to 25. Of these 25 counterpart trainees representing 4% has left the Program.

The increasing demand for its training programs requires the expansion of its dormitory facilities to accommodate a great number of participants.

PROGRAM IV

Program IV has been strategically linked by its lead implementing agency, the National Cottage Industries Development Authority (NACIDA), to the agency's task of the furthering of the developmental goals of the cottage industry.

In the previous year of technical cooperation NACIDA has established three regional technology centers, one for bamboocraft in Batac another for woodworking in Tuguegarao and rattanraft in Cagayan de Oro. One more regional technology centers for woodworking will be established in Davao.

The crafts being promoted by these regional centers have been selected according to the indigenous cottage industries prevailing in the respective regions. The trainors, technicians and consultants of these regional centers have been trained in Program IV's Cottage Industry Training Center (CITC) at Marikina, who in turn will adapt and propagate the technologies they learned to the local craftsmen/producers in their respective regions.

Program IV trained trainors not only in CITC but also in the other regional Centers. These resulted into an expanded program and the growth of its clientele which is now totalling to 164 or 264% more than the targetted number of trainors, these include producers and regional

technologist. 106 trainors or 61% of the total number trained came from the region. Training have been offered to the private sector on a need basis. To date CITC has trained 42 participants from the private sector in short term courses on bamboo, wood and rattan.

The present reorganization does not seem to affect activities being undertaken by Program IV since the thrust of the new government is towards regionalization.

D. Program Direction

D. PROGRAM DIRECTIONS

Considering the serious commitment of the government to further the lot of the populace, the PHRDC Project as a social-oriented inter-agency undertaking intends to align its objectives to the priorities laid down by the new government in the areas of rural development and the inculcation of self reliance and productivity.

In order to address itself to a broader segment of the population within the next five (5) years PHRDC intends to:

- 1) Build linkages not only within the confines of its implementing agencies but as well as other related agencies in order to carry out outreach program.
- 2). Strengthen its training and materials development capabilities thru acquisition of both foreign and local technologies so that it can be the Center of Excellence on skills and craft upgrading of trainers, extension officers, rural craftsmen and technical specialist. Training of these so called "agents of change" is expected to generate a multiplier effect which would hasten rural development.
- 3). Work for the advancement of appropriate technology, rural enterprise projects, export market development to provide broader scope and opportunities for small enterprises.
- 4). An emerging concern of the PHRDC is in the area of

"appropriate technology". This concern is derived from the unique technological needs of the small entrepreneur in developing country. The PHRDC intends to promote adaptable and develop indigenous technologies attuned to local requirements thru manufacture of fabricated machine, holding of seminars on appropriate technology, or thru a technical inquiry service which can service small entrepreneurs/fishermen who have technical problems in running their small businesses/farms.

- 5). Build a reputation not only as a national but also as an international training center for rural development.

1. Plan for 1986-1987

**PROGRAM I PROJECT PLAN
1986**

PROJECT	OUTPUT	BENEFICIARIES
1.0 Computer Services		
1.1 Establishment of an Agency Linkage System	HRD Data Sharing Network	PHRDC Programs/HRD planning agencies
1.2 Operations/Maintenance of Data Bank Facilities	Information Reports	PHRDC Programs/HRD planning agencies
1.3 Program Assistance to Program III	Program	Program III personnel
1.4 Program Assistance to Program IV	MIS system	Program IV, NACIDA personnel
1.5 Computer Courses	EDP Courses	Program III, other government executives, students
1.5.1 Structured Design/Programming		
1.5.2 Mgt. Info Systems		
1.5.3 Data Base Systems & Design		
1.6 EDP Services for other government agencies	computerized systems, fund for maintenance	government agency clients
2.0 Production of Multi-Media Packages (Documentation and Repackaging of Japanese Technology)		
2.1 Computer Appreciation Courses	2 MM Packages of: -print manuals for trainees, trainors -video instruction program -computer instruction program	PHRDC Programs personnel/other gov't personnel, students
2.2 Oyster Culture Technology	3 MM Packages of: -video instruction program -charts -slides/overhead projector materials	Program II trainees

2.3	Steel Erection Training	MM Package of: -video instruction program -charts -slides/overhead projector materials	Program III trainees
2.4	Heavy Equipment Maintenance Training	MM Package of: -video instruction program -charts -slides/overhead projector materials	Program III trainees
2.5	Pipefitting Training	MM Package of: -video instruction program -charts -slides/overhead projector materials	Program III trainees
2.6	Bamboo Species and Varieties	MM Package of: -video instruction program -charts -slides/overhead projector materials	Program IV ASEAN trainees
2.7	Bamboo Basketry Processing	MM Package of: -video instruction program -charts -slides/overhead projector materials	Program IV ASEAN trainees
3.0	Program I Educational Technology Course Packages Production		
3.1	Basic Video Camera Operation/Maintenance	-handbook -video instruction program	Program I trainees
3.2	Basic VCR Operation /Maintenance	-handbook -video instruction program	Program I trainees
3.3	Print Production Techniques	-handbook	Program I trainees
3.4	AV Production Techniques	-handbook -video instruction program	Program I trainees
3.5	Video Production	-handbook	Program I

	Techniques	-video instruction program	trainees
3.6	OH/Slide Projector Operations	-handbook -video instruction program	Program I trainees
4.0	Formative Evaluation of instructional materials	-recommendations on improvement of existing and new instructional materials before reproduction and dissemination	All programs
5.0	PHRDC Public Information Materials Production		
5.1	Revised PHRDC Video Briefer	briefer	general public
5.2	Program IV Video Briefer	briefer	general public
5.3	Routine coverage	video/photo documents	general public

**PROGRAM I PROJECT PLAN
1987**

PROJECT	OUTPUT	BENEFICIARIES
1.0 Computer Services		
1.1 Establishment of an Agency Linkage System	HRD Data Sharing Network	PHRDC Programs/HRD planning agencies
1.2 Operations/Maintenance of Data Bank Facilities	Information Reports	PHRDC Programs/HRD planning agencies
1.3 Program Assistance to Program III	Program	Program III personnel
1.4 Program Assistance to Program IV	MIS system	Program IV, NACID4 personnel
1.5 Computer Courses	EDP Courses	Program III, other government executives, students
1.5.1 Structured Design/Programming		
1.5.2 Mat. Info Systems		
1.5.3 Data Base Systems & Design		
1.6 EDP Services for other government agencies	computerized systems, fund for maintenance	government agency clients
2.0 Production of Multi-Media Packages (Documentation and Repackaging of Japanese Technology)		
2.1 2 Program III Courses	2 MM Packages of: -print manuals for trainees, trainers -video instruction program -other instructional materials	Program III trainees
2.2 2 Program IV Courses	2 MM Packages of: -print manuals for trainees, trainers -video instruction program -other instructional materials	Program IV trainees

2.3	ETV Programs Production	Human Resources; Key to Development	Automatic Master (broadcast quality)	All PHRDC Program Staff & Trainees/ general public
3.0	Program I Educational Technology Course Packages Production			
3.1	Developing Training Materials: Design to Production	-handbook -video instruction program	Program I trainees	
4.0	Formative Evaluation of instructional materials	-recommendations on improvement of existing and new instructional materials before reproduction and dissemination	All programs	
4.1	State of the Art of Multi Media in HRD 1. Survey 2. Forum	Paper on state of art in MMD as used in HRD	PHRDC, Gov't institutions/ Print Institu- tions/ Schools	
5.0	PHRDC Public Information Materials Production			
5.1	Training Documentation	-video program -news material	ASEAN trainees, general public	
5.2	Program IV Video Briefer	briefer	general public	
5.3	Routine coverage	video/photo documents	general public	
6.0	ASEAN Regional Training in Educational Media Production	one-month course with video/ print materials for trainors, trainees	ASEAN trainees	

TECHNICAL COOPERATION REQUEST (1987)

A. EXPERTS	NO.	FIELD AREA	PURPOSE	DURATION
PROGRAM 1	:	:	:	:
Information	:	N/A	:	:
and Computer	:	:	:	:
Services Div.	:	:	:	:
Multi-Media	:	:	:	:
Division	1	ETV Program Production	To train MMD staff on the creative and technical aspects of ETV Production	1 month

B. TRAINEES	NO.	FIELD AREA	PURPOSE	DURATION
Program 1	:	:	:	:
Multi-Media	1	Educational Media Technology	To learn the various techniques in production and application of media in education	1 month
Division	:	:	:	:

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM I		
Information and Computer Services Division	1 package	Data Communication Devices and Software
Multi-Media Division	1 unit	Camera-underwater housing for VTR camera
	1 unit	Video Camera microscope adapter
	1 unit	Extender Board for Signal Effects Generator
	1 unit	Extender Board for DXC-M3 Video Camera
	2 units	5" Portable Color TV and carrying case KV-5300
	200 pcs.	Umatic Video cassette tapes KCS-20
	50 pcs.	Umatic Video cassette tapes KCS-60
	1 pc.	Software for SMC-70G Title: SMW-7078 Quick Titles
	1 pc.	Light pen for SMC-70G Various Maintenance Tools

PROJECT PLAN
1986 - 1987

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PROJECT	OUTPUT AND APPLICATIONS
=====	
PROGRAM II	
1. RESEARCH AND DEVELOPMENT	
1. Site Selection/ Identification/ Monitoring	
1.1 General Hydrographic Surveys	Completion of two year cycle on some areas; General baseline data/correlation studies on hydrographic conditions in the Gulf; Publication of Technical Papers & fill up data gaps
1.2 Table and Ocular Survey of Candidate Sites in Luzon & Visayas	Preliminary data to guide further surveying works. More solid estimates of actual & potential areas for oyster culture
1.3 Water Sampling Aspects	Continuation of Water Sampling Methods for dedicated use in Microbiological and Mariculture studies.
2. Mariculture Technology Adaptation	
2.1 Validation of Traditional Grow-out methods in Traditional Areas	Small-scale plots in Dawel & Gayaman to serve as benchmark models
2.2 Further Refinement & Adaptation of Japanese Seed Hardening, Seed-collection, & Grow-out & Forecasting Methodologies	Actual construction & refinement of farm designs; bio-ecological determinations, further suitability testing; initial promotion & extension services; actual production; Raw data on single oyster production particulars; Processing of available data for forecasting objectives; one published technical paper

PROJECT PLAN
1986 - 1987

PROJECT	OUTPUTS AND APPLICATION
(Training, Software Development, Research	
Program II	
3. Microbiological Technologies	
3.1 Refinement/Standardization of Artificial Depuration/Washing Procedures	Preliminary working recommendation to the industry; Raw processed data, technical papers.
3.2 Continuation of Survey for Natural Depuration Sites	Raw data of value in localizing such areas, refinement of parameters used
3.3 Semi-intensive Scale Depurated Oyster Production	Oyster for use in limited commercial tests & promotion (see processing)
3.4 Microbiological Services	Sanitary surveys in Regions I & IV, Raw data
4. Processing Technologies	
4.1 Further Refinements & Standardization of Various Oyster Product Forms	Working standards & procedures; qualitative recommendation; Technical Papers
4.2 Marketing Research for Various Product Forms	Testing & promotions of developed products; Economic prospectus
II. PLANNING/COOPERATIVE WORKS	
1. Compilation of Available Research Works & Findings re. bivalves	Institutional linkages, bibliography, updated library & information base

PROGRAM PLANS
1986 - 1987

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PROJECT	:	OUTPUTS AND APPLICATIONS
(Training, Software	:	
Development, Research)	:	

=====

PROGRAM II

- | | | |
|---|---|---|
| 2. Research Species Identification & Prioritization | : | Formulation of criteria, identification & prioritization of species requiring R & D work, functional linkage with BFAR |
| 3. Region I Oyster Industry Survey & Assessment | : | Quantification & qualification of scope, particulars, & potential of the oyster industry in the region; linkage with BFAR / PCARRD. |
| 4. Development of Systems/Procedures for Use in Remote Sites/Sub-stations | : | Procedures, proposed equipment kits for use by BFAR stations with links to SRDC. |
| 5. Joint Laboratory/Field Researches | : | As per research type, jointly determined with invited institutions |
| 6. Preliminary Communication with ASEAN Institutions | : | Groundwork for future cooperation |

III. SOFTWARE DEVELOPMENT
(In Cooperation with Program I)

- | | | |
|--|---|------------------------------|
| 1. Video Briefers/ Demonstrations | : | Technology packages on tapes |
| 2. Handbook on Oyster Cultivation, Depuration & Processing | : | Textbook (Preliminary Work) |

PROGRAM PLANS
1987

PROJECT (Training, Software, Development, Research)	OUTPUTS	BENEFICIARIES
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PROGRAM II

V. Training Courses		
1. Specialized Courses/ Seminar on Microbiolo- gical Testing/Analysis of Shellfish Product	:Participants/ :Graduates better :exposed to avail- :able & applicable :findings technolo- :gies in this area. :Preliminary steps :towards establish- :ment of local :guidelines/ :standards	: 25 BFAR/MOH/NPCC : SRDC Researchers : & Scientists
2. Specialized Course on Small-Scale Oyster	:Graduate better :skilled in pro- :cessing ventures:	: 20 Private Sector : participants
3. General Course on Oyster Culture & Processing Techno- logies	:Graduates with :better under- :standing & :appreciation :of the challenges/ :opportunities :in the oyster :growing sector :& of the skills :require threat	: 50 Faculty Members/ : Senior Students from : Fishery Schools & : Colleges
4. Specialized Course on Environmental Survey	:Graduates with :hands-on know- :ledge of survey :equipments appli- :cation	: 30 Faculty Members : Senior Students from : fishery schools & : Colleges

PROJECT PLAN
1986

PROJECTS (Training, Software Development, Research)	OUTPUTS	BENEFICIARIES
PROGRAMS II		
IV. TRAINING/DEMONSTRATION COURSES		
1. Sept. 1986 General Course on Oyster Technologies/ SRDC Facility Demonstration	: Better Coordination/Integration in the Planning and Implementation of Research & extension effort	: 20 MAF & BFAR Planning personnel (senior & mid-level)
2. November 1986 General Course on Oyster Culture & Processing Technologies	: Graduates with better understanding & appreciation of the challenges/opportunities in the oyster growing sector & of the skills require threat	: 50 Faculty Members/Senior Students from Fishery Schools & Colleges
3. December 1986 Specialized Course on Oyster Grow-out Methods & Approaches	: Graduates more aware of available alternatives with practical understanding of bio-ecological & economic factors involved	: 30 Private Sector Oyster Farmer including SRDC/ KKK production cooperation

PROJECT PLAN
1986 - 1987

PROJECT (Training, Software Development, Research	:	OUTPUTS AND APPLICATION
=====		
Program II		
3. Microbiological Technologies	:	
3.1 Refinement/Standardization of Artificial Depuration/Washing Procedures	:	Preliminary working recommendation to the industry; Raw processed data, technical papers.
3.2 Continuation of Survey for Natural Depuration Sites	:	Raw data of value in localizing such areas, refinement of parameters used
3.3 Semi-intensive Scale Depurated Oyster Production	:	Oyster for use in limited commercial tests & promotion (see processing)
3.4 Microbiological Services	:	Sanitary surveys in Regions I & IV, Raw data
4. Processing Technologies	:	
4.1 Further Refinements & Standardization of Various Oyster Product Forms	:	Working standards & procedures; qualitative recommendation; Technical Papers
4.2 Marketing Research for Various Product Forms.	:	Testing & promotions of developed products; Economic prospectus
II. PLANNING/COOPERATIVE WORKS	:	
1. Compilation of Available Research Works & Findings re. bivalves	:	Institutional linkages, bibliography, updated library & information base

TECHNICAL COOPERATION REQUEST (1987)

A. EXPERTS	NO.	FIELD AREA	PURPOSE	DURATION
PROGRAM II				
Seafarming and Research Development	1	Structural design and construction of oyster farming structures (e.g. bamboo raft and longline)	Pilot testing of Japanese oyster culture technology (e.g. raft and longline & methodology e.g. hardening beds or pilot/hanging)	3 months
	1	Oyster biologist with background on oyster hatchery (indoor breeding)	In-depth study on oyster biology e.g. expert on tolerance level, gonadal indices, food and feeding habits study, bearing period/life cycle (hatchery)	3 months
	1	Sanitary Survey of Oyster Growing Waters	Assess the ongoing sanitary survey and make recommendations suitable to tropical conditions	1 month
	1	Natural Depuration	- do -	
	1	Water and Soil Analysis (Primary Productivity and Nutrient studies)	To improve site selection and monitoring capabilities	2 months
	1	Fish Processing Methods a. smoking b. drying c. handling and refrigeration	To acquire Japanese technology on methods of processing marine resources which includes bivalves, fish and seaweeds and quality control procedure and standards for fishery products.	12 months

TECHNICAL COOPERATION REQUEST (1987)

B. TRAINEES	ND.	FIELD AREA	PURPOSE	DURATION
PROGRAM II				
Seafarming	1	Fishery re: Training and	Training on Extension	3 months
Research		Extension Services		
Development	1	General Aquaculture	Training on Extension	3 months
	1	Fouling Organisms	Prevention/system of	3 months
		Biology	rendorse of fouling	
			organism occurrence	
	1	General Oyster Biology	For comparative study of	3 months
		and Mariculture in ASEAN	other culture methods	
	1	Oyster diseases		2 months
		(microbiological)		
	1	Fishery Products	To acquire Japanese tech-	6 months
			nology on methods of pro-	
			cessing marine resources	
			which includes bivalves,	
			fish and seaweeds	

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM II		
Seafarming and Research Development	2 units	Scuba Diving Set
	1 unit	Camera (Nikkon) complete with normal/zoom lens
	1 unit	Recorder
	1 unit	Inflatable Speedboat
	4 units	Olympus Stereo Microscope
	2 units	Biological Microscope
	2 units	Surface Plankton Net (Kidmada)xxx17 and xxx13
	1 unit	Top-loading balance
	3 units	Ohaus Triple Beam Balance
	4 pcs.	Plankton Sorting Slides
	4 pcs.	Haemocytometer
	2 units	Autoclave
		Anaerobic culture
	1 unit	Refrigeration Unit
	2 units	Millipore Filtration
	1 unit	Ohaus moisture determination oven
	1 unit	Probe thermometer
	2 sets	Kjeldahl digestion and distilling apparatus

PROJECT PLAN
1986.

PROJECT (Training, Software Development, Research):	OUTPUTS:	BENEFICIARIES
PROGRAM III		
1. Teacher Training	: Graduates with proficiency	: 68 trainees
Courses in eight (8)	: certificates in various	: from the
construction areas;	: construction skills,	: public and
heavy equipment	: methods of teaching and	: private sector
maintenance, heavy	: attitudes development	:
equipment operation,	:	:
industrial electri-	:	:
city, pipefitting/	:	:
plumbing, masonry,	:	:
rebarwork, & welding:	:	:
2. Trade Testing and Certification	: Preliminary accreditation	: Government
	: of CMDF with local	: (private
	: training institutions.	: clientele)
	: Produce a brochure on	:
	: testing, standard tests	:
	: for graduated job levels	:
	: in eight (8) construction	:
	: skills.	:
	: Recognition of CMDF/CMDC	:
	: as a Center for testing in	:
	: construction skills.	:
	: Preliminary accreditation	:
	: of CMDF with Local train-	:
	: ing institution	:
	: Produce a brochure/guide-	:
	: book on testing, standard	:
	: tests for graduated job	:
	: levels in 8 construction	:
	: skills	:

**PROJECT PLAN
(1987)**

PROJECT (Training, Software Development, Research	OUTPUTS	BENEFICIARIES
PROGRAM III		
1. Teacher Training Courses in eight (8) construction areas	: Please refer to the same : goals/objectives of FY1986	: 270 graduates/ : year at 90 : trainees per : quarter for 3 : quarters
2. Trade Testing and Certification	: Please refer to the same : goals/objectives of FY1986	: 15/mo. or : 90/year
3. Training on Modern Construction Methods	: Trained construction ma- : nagers in recent develop- : ments in methods of cons- : truction	: 60 graduates : 20/batch x : 3 batches
4. Supervisors/Fore- ment Upgrading Prog- ram (SSTP)	: Trained field personnel : equipped with management : supervisory skills in di- : recting construction ac- : tivities	: 40 graduate : 20/batch x : 2 batches
5. Specialized Trng. Program (STP)	: Trained foremen/super- : visors	: 60 graduates : 20 graduates/ : batch x 3 : batches
6. ASEAN Training Program (ATP)	: Trained ASEAN members : country trainees in: : a). Equipment Management : b). SRC : Industrial Electricity	: 10 graduates : in any of the : 3 areas

TECHNICAL COOPERATION REQUEST (1987)

A. EXPERTS	NO.	FIELD AREA	PURPOSE	DURATION
PROGRAM III				
Construction and Manpower Development	1	Heavy Equipment Operation		Long-Term
	1	Heavy Eqpmt. Maintenance		Long-Term
	1	Welding Technology		Long-Term
	1	Industrial Electricity		Long-Term
	1	Steel Reinforced Concrete		Long-Term
	1	Program III Team Leader		Long-Term
	6	Steelframe Erection		1-2 Weeks
	3	Masonry		1 week
	3	Pipefitting/Plumbing		2 weeks
	3	Heavy Eqpmt. Maintenance		2 weeks

B. TRAINEES	NO.	FIELD AREA	PURPOSE	DURATION
PROGRAM III				
Construction and Manpower Development	1	Erection		6 months
	1	Masonry		6 months
	1	Rebar		6 months
	1	Heavy Eqpmt. Maintenance		6 months
	1	Electricity		6 months
	1	Pipefitting/Plumbing		6 months
	1	Erection		6 months

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM III		
Construction and Manpower Development	1 set	Cut Model of Steel Beam
	5 sets	Air Hose Reel P-1333
	2 units	Disto Meter
		Hose Reel for acetylene and oxygen Maruma J-2102
		Regulator for acetylene and oxygen
		Power Sander 500 Ø 220V, 3ph, 60Hz
	10 sets	Fish-in-Wire Case Steel Case
	10 pcs.	Centr Punch
	10 pcs.	Tubing Cutter
	10 pcs.	Wire Stripper 1.0-3.2mm
	10 pcs.	VVF Cable Stripper
	10 pcs.	Cable Stripper 1.6-2.0mm
	10 pcs.	Cable Cutter 850 mm ²
	5 sets	Bolt Crippler big, middle, small
	5 sets	Facing Tool 16-42 mm set
	20 pcs.	Prick Knife
	10 pcs.	Electric Hand Drill
	20 sets	Pull Box 200mmx200x100mm
	10 sets	400x400x200
	1 set	Consumables vinyl wire etc.
	2 units	Metallurgical Microscope

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM III		
Construction and Manpower Development	4 units	Grinder Heavy Duty Makita 4" Ø angle (disc)
	5 pcs.	Soil Pipe Cutter (Ridgid No. 246)
	5 pcs.	Straight Pipe Welding Vise (Ridgid N. 461)
	5 pcs.	Angle Pipe Welding Vise (Ridgid No. 462)
	5 pcs.	Elbow Pipe Welding Vise (Ridgid No. 463)
	5 pcs.	Flange Pipe Welding Vise (Ridgid No. 464)
	2 sets	Drain Cleaning Machine (Ridgid No. K-500-G)
	2 sets	Levelling Tube 1=3 mm
		Rotary Angle Grinder Maruma 0-2903
	2 tons	Stainless Electrodes
	6 tons	4"Ø Stainless Pipe
Different types of Testing Equipment Electrical		
	1 unit	Water Truck (trailer mounted water tank- 2000 liters with gaso- line driven pump for water sprayer)
	3 sets	Heavy Duty Pipe Drill 32 mm
	1 set	Flux Cord Arc. Welding Medium - 350 amps. 220 V, 3 Ƙ

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM III		
	8 sets	Hand Drill Bits - 1/16 to 1/4" dia.
	1 unit	Sand Blasting Machine (portable, wheel mounted complete with 20 ft. hoses and dead man's valve)
	1 unit	Air Compressor 225-250 cfm, Diesel Engine Driven, Towed Type
	120 pcs.	Square Pipes-Carbon Steel, Galvanized hot dipped, 2.8 mm, thickness, 48 x 48 mm section by 6.0 m

**PROJECT PLAN
1986**

PROJECT (Training, Software Development, Research	OUTPUTS	BENEFICIARIES
PROGRAM IV		
1. In-House Training	1. Basic Rattan Technology	10 RCITC X Technologists
	2. Basic Trainors Training on Curriculum Design and Development	20 CITC and RCITC trainors
	3. RCITC Advanced Wood Machine	5 RCITC II technicians and trainors (Phase II)
	4. Bamboo Advanced Course	4 RCITC I technicians 6 private sector
	5. Specialized Course on Millwrighting and Maintenance (with Japanese Short Term Expert)	10 CITC and RCITC technicians
	6. Specialized Training on Low-Cost Automation	8 CITC trainors
Multi-Media	1. Development of materials for ASEAN-PHRDC Training on Bamboocraft	8 ASEAN and 10 Philippine participants

**PROJECT PLAN
1987**

PROJECT (Training, Software Developed, Research	OUTPUTS	BENEFICIARIES
PROGRAM IV		
1. In House Training	1. Specialized Course on Pro- duct Design (with Japanese Short Term Expert)	20 CITC and RCITC designers
	2. ASEAN-PHRDC Technician on Bamboocraft	8 ASEAN participants and 10 Philippines participants
	3. Regional Ad- vanced Technolo- gy Training on Wood, Bamboo and Rattan (First Batch)	32 Regional Partici- pants
	4. Basic Wood- working Machine Operators Course	5 RCITC XI technolo- gists (Phase I)
	5. Regional Ba- sic Training on Wood, Bamboo and Rattan 2nd Batch	36 CITC and RCITC Technicians
	6. Specialized Course on Pro- duction Manage- ment and Quality Control/Assu- rance	15 CITC/RCITC Trainers
	7. RCITC Advan- ced Wood Machine Operators Course and Wood Techni- cal Course	5 RCITC XI technicians and trainers (Phase II)
Private Sector Trng.	1. Training - cum-research	Members of the Chamber of Furniture Industry

**PROJECT PLAN
1987**

PROJECT (Training, Software Developed, Research	OUTPUTS	BENEFICIARIES
PROGRAM IV	:(prototyping :activities)	: of the Philippines :(CFIP)
	:2. Short Term :Craft Skills	: Out of school youth : Entrepreneurs, others
	:Training on Wood- :working, Bamboo- :craft and Rattan- :craft	
	: - Basic weaving :techniques :(Rattan)	
	: - Non-Bamboo :Baskets and No- :velty Items	
	: - Basketry :Wicker and Split :Rattan	
	: - Woven Bamboo :Basketry	
	: - Introductory : Course on Rattan	
	: - Rattan Joints :and Binding	
	: - Basic Stationary :Woodworking :Equipment	
	: - Rattan Raw :Materials Preparation	
	: - Improved Method :of Processing Rattan :Derivatives	
	: - Finishing : - Furniture :Structure and :Assembly Method	
	:3. Specialized :Training Course :on Woodworking :Bamboocraft and	: Entrepreneurs, would : be entrepreneurs

**PROJECT PLAN
1987**

PROJECT (Training, Software Developed, Research	OUTPUTS	BENEFICIARIES
PROGRAM IV		
	:Rattancraft	
	:(In-plant and	
	:community,	
	:based on request:	
Establishment of PHRDC	:1. RCITC XI	: Out of school youth
Assisted Regional Cot-	:(Woodworking)	: teachers, entrepre-
tage Industry Technology	:	: neurs, technicians
Center (RCITC)	:	:
	:2. Monitorand	: RCITC I, RCITC II
	:and provide	:
	:technical assis-	:
	:tance to the	:
	:operating RCITCS:	:
	:	:
	:3. Fabrication	: RCITCs I/II/X/XI
	:of additional	: RCITCs V/VIII
	:Machines, tools	:
	:and gadgets	:
	:	:
Multi-Media	:1. Development	: Trainees from public
	:of Manual on	: and private sectors
	:Rattancraft	:
	:	:
	:2. Development	: - do -
	:and Publication	:
	:of Manual on	:
	:Finishing	:
	:	:
	:3. Preparation,	: - do -
	:development and	:
	:mimeographing of:	:
	:print materials	:
	:on Wood, Bamboo	:
	:and Rattan	:
	:	:
	:4. Development	:
	:of Video Mate-	:
	:rials on Wood	:
	:Bamboo and	:
	:Rattan	:
	:	:
	:PHRDC Program IV:	: public and private
	:NACIDA Exhibi-	:
	:tion of Wood, Bamboo and Rattan Products	:

TECHNICAL COOPERATION REQUEST (1987)

A. EXPERTS	NO.	FIELD AREA	PURPOSE	DURATION
PROGRAM IV				
Cottage and Light Industry Development	1	Expert on International Marketing on Housewares (JICA or JETRO)	To conduct seminar on marketing strategy	3-4 weeks

B. TRAINEES	NO.	FIELD AREA	PURPOSE	DURATION
PROGRAM IV				
Cottage and Light Industry	1	Consultancy Services	To be able to render consultancy services in the establishment and promotion of small business enterprises or industry	6 months
	1	Finishing	Study all aspects of wood bamboo and rattan finishing	2 months
	1	Shop Management	To acquire necessary skill in managing training Centers	2 months

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM IV		
Cottage and Light Deve-	2	Circular Saw Blade
lopment		(Ishizu Mfg. ISC-1300
	6	Round Panel Saw Cutter
		Blade (105,155,265)
		(Shimpo WBA-075)
	2 sets	Cutting Machine for
		Dowel (saw blade
		80 mmø x 1 mm x 10mm
		(Ishizu DCO-2000)
	2 sets	Cutting Machine for
		Dowel (cutter blade
		63 mmø x 5 mm x 10
		(Ishizu DCO-2000)
	6 pcs.	Veneer Slicing Machine
		(belt (B-93) Marunaka
		SL-1
	2 pcs.	Veneer Slicing Machine
		(knife HS (130 x 16 x
		800 mm) Marunaka SL-1)
	2 pcs.	Veneer Slicing Machine
		(knife TC (130 x 16 x
		800 mm) Marunaka SL-1)
	1 sets	Surface Plane/Jointer
		(blade HS (400 x 28 x
		3.2 mm) Shimohira UL-1)
	2 sets	Press Machine for Edge
		(heater (3KV 220V 60Hz
		3Ø) Shinke WX-2400
	2 sets	Making (rubber plate
		(Shinke WX-2400)
	2 sets	Spindle Holder (flat
		belt (20 x 920 mm)
		Heian SH-30)
	2 sets	Copy Shaper (flat belt
		(50 x 2150 mm) KYOEI
		KCS-603)
	200 pcs.	Jigsaw Blade No.2,3,4

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM IV		
Cottage and Light	4 sets	Copy Shaper (Knives) KYOEI KCS-603
	2 sets	Dowel Making Machine (rubber roller-ISHIZU DA-15
	1 sets	4-Spindle End Tenoner (T.C. Saw Blade 255Ø HEIAN ST-4)
	3 sets	4-Spindle End Tenoner (Cutter Blade-HEIAN ST-4)
	3 pcs.	High Speed Router Flat Belt (20 x 2234 mm 60 mm blank X
	5 pcs.	High Speed HS Router Bit (12 mmØ) SHODA ROA-113
	25 pcs.	Universal Belt Sander (Sanding Belt (180 x 2150#100) HASEGAWA HUS-3)
	2 pcs.	Wide Belt Sander (Graphite Canvas- TAKETAWA NSX-100
	25 pcs.	Wide Belt Sander (Sanding Belt (1060 x 2515 #80) TAKEKAWA HUS-3)
	1 set	Universal Wooding Machine (Jointer Knife (300HS x 32 x 5MM 4.7HS X
	1 sets	Universal Wooding Machine (Thickheaser Knife (32 x 5MM) TOKIWA CO. LTD. OMD-300)

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM IV		
Cottage and Light Industry Development	2 sets	Universal Wooding Machine (Tipped Saw Blade (305Ø x 25 x 100T) TOKIWA CO. LTD. OMD-300)
	2 sets	Portable Dust Collector (Dust Sack-MURAKOSHI MY-100X)
	2 sets	Portable Dust Collector (Filter Sack-MURAKOSHI MY-150X)
	2 sets	Filter Sack MY=200
	1 set	Sanding Lathe Air Filter SHIMPO PRA-2C-F
	1 set	Gang Rip Tipped Saw Blade-HEIAN IRON GR-10
	6 sets	6-Spindle Holder (Timing Belt (60HZ 390H-100) HEIAN IRON FX-6
	1 set	Surface Planer/Jointer Blade HS (400 x 2.8 x 3.2 mm) SHIMOHIRA HL-1
	8 pcs.	8-Spindle Dovetailing Bit Machine-HEIAN IRON DM-8
	6 pcs.	High Speed Router (2) (Flat Belt (20 x 2235mm) SHODA IRON RO-116
	5 pcs.	High Speed HS Router Bit (60 mm blank x 12Ø x 255Ø x 3t x 80P) SHODA IRON RO-116
	1 pc.	Finger Jointer Tipped Saw Blade - KOBAYASHI KIKAI KOGYO KG-1

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM IV		
Cottage and Light Industry Development	1 set	Auto Single Spindle Blade (cutter and saw) KYOEI IRON
	5 pcs.	Elliptic Tononer (Spacers) KTE-2001
	4 pcs.	Automatic Slotting Borer Bit (2mm to 12mm) KYOEI IRON KSBU-101
	1 pc.	Flat Belt (35 x 1410 mm) KYOEI IRON KSBU-101
	1 pc.	Multi-Spindle Boring Machine Flat Belt (40 x 3700) TOYO IRON SAT-ZG
	1 set	Drill Bit 7.8 mm TOYO IRON SAT-ZG
	1 set	Portable Dust Collector (Dusk Sack) MURAKOSHI KOGYO MY-100X
	1 set	Filter Sack - MURAKOSHI KOGYO MY-150X
	1 set	Filter Sack - MURAKOSHI KOGYO MY-200
	1 pc.	Blade Sharpener for Veneer Slicer (Grinding Stone) TANOUCHI IRON CG-125
	2 pcs.	Grinding Wheel for Finishing (1250 x 13 x 12.70) HITACHI KOKI DG-125
	1 pc.	Automatic Drain - IWATA
	1 unit	Mobile Cabinet Main- tenance Cart

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM IV		
Cottage and Light	4 boxes	Tipped Saw Reteething
Industry Development		Set (Tungsten Carbide
		Tip)
	6 pcs.	Carbon Rod 25 MMØ
		x 300 MM
	3 rolls	Silverwire No. 20
	1 pint	Borax
	1 pc.	Universal Bevel Protec-
		tor
	1 unit	Lubrication Service Cart
		(Combination of Grease,
		Gear and machine oil
		attachment complete with
		std. accessories
	3 units	Flexible Type Heavy Duty
		Oiler
	6 sizes	Safety Shoes 24/24.5/
		25/25.5/26/27
	6 sizes	Working Clothes (Polo
		and Pants) S/M/L
	6 sizes	Jumper (S/M/L)
	6 sizes	Overall (S/M/L)
	6 sizes	cap (S/M/L) Gray
	18 pcs.	Apron
	18 pcs.	Gloves (asst. sizes)
	18	Safety Glasses
	3 units	Orbital Sander (elec-
		tric) 220V, 60HZ, 1Ø
	3 units	Orbital Sander
		(Pneumatic)

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM IV		
Cottage and Light	1 unit	Hydraulic Press (500 x 1000 MM, 5-ton) 300 MM)
	5 pcs.	Stainless Vat (300 MMØ XX 400 MM
	5 pcs.	Stainless Vat (400 MMØ x 500 MM
	10 pcs.	Stainless Cup (500cc)
	10 pcs.	Stainless Cup (1000cc)
	10 sets	Hand Tools
	10 pcs.	Scissor for Cloth
	25 pcs.	Rattan Polo Straight- hener (Electric Heating) Rubber Roller 120 V, 100 W - TAKAHASHI R-120
	2 pcs.	Automatic Rattan Rod (Tire Roller M-34,R-6002 TAKAHASHI R-6
	25 pcs.	Shaving (Surface Milling) Sanding Paper 150 x 1850 TAKAHASHI R-6
	25 pcs.	Sanding Paper 120 x 1850 TAKAHASHI R-6
	12 pcs.	Automatic Rattan Rod Shaving (Dowel Machine) (Shaving Blade 150, 200, 250) TAKAHASHI R-405
	3 pcs.	Holder and Ring TAKAHASHI R-405
	2 pcs.	Radial Arm Tipped Saw Blade BAN IRON WORKS RS-3500

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM IV		
Cottage and Light	5 pcs.	Rattan Peel Thinner
Industry Development		Blade - TAKAASHI 100SMR
	2 pcs.	Plastic Feeding Roller
		TAKAHASHI 100SMR
	2 pcs.	Rattan Slicing and Width
		Sizing Machine
		(Slicing Blade No. 115 x
		15 MM) TAKAHASHI R-23
	4 pcs.	Width Sizing Blade
		TAKAHASHI R-23
	5 pcs.	Compressor
		(Multicoupler) IWATA
		SU-371-PR
	1 set	Spray Booth (Spray
		Gun (W-77)) IWATA WB-15
	1 pc.	Cup (PC-1)
	2 sets	Mini Dust Collector
		(filter sack)
	5 pcs.	Projection Lamp 24V,
		250W, Halogon ELMO
		16-AA
	5 pcs.	Exeltes Lamp 4V 0.75A
		ELMO 16-AA
	5 pcs.	Projection Lamp 24V,
		250W, Halogon ELMO
		AS-3000A
	5 pcs.	Overhead Projector Lamp
		Type ERR, 500W
	4 pcs.	Lamp 24V, 150W, Halogon
		ELMO A-55-AF
	50 pcs.	Fuse 1A and 2A
	50 tubes	Dry Ink for Printing
		(No. 81900 Gakken)
		RONEO 770

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM IV		
Cottage and Light	50 rolls	Electric Typewriter Ribbon BROTHER CE-60100
	25 boxes	Telegraph Film GSM-2 BAKKEN FAX GOM-709
	25 boxes	Toner (Kerox4150) FUJI XEROX
	25 boxes	Toner (Kerox2970) FUJI XEROX
	2 sets	Drum (Xerox) 4150 FUJI XEROX
	5 sets	Drum (Xerox) 2970 FUJI XEROX
	25pcs.	Manilan Pad for CFF- SET Printing ELEFAX
	50 rolls	Correction Tape (Electric Typewriter BROTHER CE-60100
	5 pcs.	Daisy Wheel (Electric Typewriter) BROTHER CE-60100
	5	Isuzu Trooper Diesel 4WD Engine: Oil Filter Element
	5	Fuel filter Element
	5	Air Cleaner Filter Element
	5	Water Pump Repair Kit CLUTCH
	5	Master Repair Kit BREAK
	5	Master Cylinder Cap and Kit

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM IV		
Cottage and Light	5	Master Repair Kit
Industry Development	5	Wheel Cylinder Repair Kit
	5	Wheel Piston Cylinder
	10	Front Disc with Lining (set)
	10	Rear Shoe with Lining (set)
	10	ELECTRICAL Front Head Light (Sealed Beam)
	10	WIPER Blade and Arm Assembly
	10	AXLE: Front Axle Bearing Assembly (set)
	10	Front Axle Oil Seal (set)
	10	Front Axle U-Joint Assembly
	10	Rear Axle Bearing Assembly (set)
	10	Rear Axle Oil Seal (set)
	10	Rear Axle U-Joint Assembly
	10	Propeller Shaft/ Differential: U-Joint Assembly
	10	Bearing Assembly (set)
	10	Oil Seal

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM IV		
Cottage and Light	1	ISUZU KC DIESEL 2WD
Industry Development		ENGINE: Oil Filter
		Element
	1	Fuel Filter Element
	1	Air Cleaner Filter
		Element
	1	Water Pump Repair Kit
	1	CLUTCH: Master Repair
	1	BRAKE: Master Cylinder
		and Cap Kit
	1	Master Repair Kit
	1	Wheel Cylinder Repair
		Kit
	1	Wheel Piston Cylinder
	2	Front Disc with
		Lining (set)
	2	Rear Shoe with Lining
		(set)
	1	TOYOTA CRESSIDA DELUXE
		STATION WAGON ENGINE:
		CLUTCH: Master Repair
		Kit
	2	WIPER: Blade and Arm
		Assembly (set)
	2	AXLE: Fron Axle
		Bearing Assembly (set)
	2	Front Axle Oil Seal
		(set)
	2	Front Axle U-Joint
		Assembly

TECHNICAL COOPERATION REQUEST (1987)

C. EQUIPMENT	QUANTITY	ITEM
PROGRAM IV		
Cottage and Light	2	Rear Axle Assembly
Industry Development		(set)
	2	Rear Axle Oil Seal(set)
	2	Rear Axle U-Joint Assembly
	2	PROPELLER SHAFT/ DIFFERENTIAL U-Joint Assembly
	2	Bearing Assembly (set)
	2	Oil Seal

2. Plan for 1988-1992

PHRDC CENTER PROGRAM PLAN (1988-1992)

The function of the Center Secretariat in the PHRDC Project has been largely administrative and coordinative in the first five years of the project. Activities covered start-up of Program projects and establishment of working linkages with the Programs and with other agencies similarly involved in human resource development.

In the next five years, PHRDC hopes to expand the Secretariat services in order to improve the quality of support it can provide to the Programs.

PHRDC requests the continuation of technical cooperation for Center activities in the areas of training, research and development, publications, and software dissemination.

TRAINING

The Center hopes to take a more prominent role in facilitating the conduct of local and ASEAN-wide workshops and symposia among HRD agencies. The aim of such activities is to provide a forum for exchange of learning experiences in HRD, establish working linkages among these agencies, and develop harmonious working relationships among practitioners. In this way, the base for HRD exchange and networking of activities within the country and among Asean countries is enhanced and maintained.

RESEARCH AND DEVELOPMENT

Research and Development activities shall look into the best means by which Japanese technology transferred through the Programs may be adapted and made more appropriate to local needs and conditions, and thus most acceptable to end-users. Results of such research may be useful to suppliers who may be interested in adjusting their products for distribution in the local market. In this way, technology transfer is assured greater success.

PUBLICATIONS

Results of the workshops/seminars and research/development efforts shall contribute to publications that the Center hopes to launch in the next five years. Contributions from local and ASEAN HRD agencies shall be sourced for dissemination through these publications.

SOFTWARE DISSEMINATION

Tested instructional materials produced by PHRDC shall form part of the instructional materials exchange program that PHRDC hopes to establish in conjunction with local and ASEAN HRD agencies, in order to best realize the ASEAN HRD network of the project.

PLANS FOR 1988-1992
CENTER

ACTIVITIES	1988	1989	1990	1991	1992
1. Program Monitoring and Coordination	: Jan.-Dec	: Jan-Dec	: Jan-Dec	: Jan-Dec	: Jan-Dec
2. Training/Workshops and Seminars(Intl)	: Jun-Dec	: Jun-Dec	: Jun-Dec	: Jun-Dec	: Jun-Dec
Training/Workshops and Seminars(Loc)	: Jan-Jul	: Jan-Jul	: Jan-Jul	: Jan-Jul	: Jan-Jul
3. Research and Development	: Jan-Dec	: Jan-Dec	: Jan-Dec	: Jan-Dec	: Jan-Dec
4. Publications	: Jan-Dec	: Jan-Dec	: Jan-Dec	: Jan-Dec	: Jan-Dec
5. Networking and Accreditation	: Jan-Dec	: Jan-Dec	: Jan-Dec	: Jan-Dec	: Jan-Dec

Program I Project Plan
(1988 - 1992)

Intensified training and regional networking projected for Programs II, III and IV require massive multi-media support in developing training packages for wide use, as well as computer support for data processing operations monitoring and training impact assessment.

MULTI-MEDIA DIVISION (MMD)

To support this, MMD requests an extension of Japanese assistance, mainly in improving and expanding its mobile media production capability. With a separate production team and facility to service each program, Program I support can be more fully realized.

At the same time media training materials existing by 1988 shall be improved and reproduced for regional and mass media dissemination.

In the area of training MMD seeks assistance in the area of formative evaluation of software to improve effectiveness of materials, and thus facilitate technology transfer.

In the area of research, MMD seeks assistance in conducting research on relative effectiveness of various instructional materials in the country, and in ASEAN, with the end in view of pinpointing the most suitable and cost effective media and media mix for wide-scale manpower development use.

In the area of ASEAN regional training, MMD hopes to offer yearly production courses for HRD workers in the region, with a special slant towards addressing geophysical and cultural/social differences in development of instructional materials for the region.

INFORMATION COMPUTER SERVICES DIVISION (ICSD)

In the next 5 years, ICSD hopes to overcome the design limitations of the computer set-up and establish greater access to and utility of its computers.

The present NEC 350 System is a mainframe computer system. Its capability and capacity are adequate for PHRDC program requirements. However, its design and location pose problems of accessibility by Programs II, III and IV. At present, the system is located in Program I. It does not allow immediate and convenient access for every processing needs of the programs.

To overcome this limitation, it is proposed that a remote processing facility be provided at the different program sites, giving them linkage and access to the mainframe computer system.

To accomplish this, the following are recommended:

- a. that microcomputers be installed at the program sites. These shall be capable of sending data to the main computer system.
- b. that communication facilities be provided/improved which will transmit the data from the sites to the main computer center.

The above is a demonstration of a network of computer systems that are linked on-line to the main computer system. This will bring the capability of the mainframe system to the program sites without a physical transfer of the system. This will make data flow faster eliminating the main hindrance which is slow exchange of data because of the distance.

Please refer to the list of equipment and softwares that are needed to make this system operational.

PLANS FOR 1988 - 1992
PROGRAM I - MULTI-MEDIA DIVISION

1988

1. Curriculum Development
 - 1.1 ETV Production (advanced) (Jan - Mar)
 - 1.2 Advanced Graphic Design and Animation for ETV (Feb - Apr)
 - 1.3 Advanced Color Printing Course (Jun - Aug)
 - 1.4 Multi-Slide AV Production (Aug - Nov)
2. Production of Courseware
 - 2.1 Handbook of VTR /OHP/Slides on "Advanced ETV" (Apr - June)
 - 2.2 Handbook/Slides/OHP on " Advanced Graphic Design " (May - July)
 - 2.3 Handbook/VTR on Advanced Color Printing (Sept- Nov)
 - 2.4 VTR/OHP/Handbook on Multi-Projector AV Production (Dec)
3. Acquisition & Repackaging of Japanese Experts' Lectures/ Technology (2 technologies/program) (Jan - Dec)
4. ETV Program Production
 - 4.1 Video Program on Handicraft (Jan-April)
 - 4.2 Video Program on Oyster Farming (Mar-May)
5. Outreach Program in Support of PHRDC Programs I,II,III,IV (Jan - Dec)
6. MMD Training/ Apprenticeship Program (March - Dec)
7. MMD Training for ASEAN nationals (Sept - Oct)
8. Technical Services for all Programs (Jan - Dec)

1989

1. Curriculum Refinement/Modification/Updating
 - 1.1 Basic Multi-Media Production (Jan - Mar)
 - 1.2 Advanced Multi-Media Production (Feb - April)
 - 1.3 Basic ETV Software Production (May - July)
 - 1.4 Advanced ETV Software Production (Aug - Oct)

- 2.0 Improvement/Refinement of Courseware
- 2.1 Basic Multi-Media Production
 - a. Video Training Modules (Jan - Mar)
 - b. OHP Transparencies/Slides (Mar - May)
 - c. Printed Handbooks (June - Aug)
 - 2.2 Basic ETV Production
 - a. Handbooks (Mar - July)
 - b. Video Modules (Jan - June)
 - c. OHP/Transparencies/Slides (Mar - May)
 - 3. Acquisition and repackaging of Lectures & Technologies of the Center's Programs (Jan - Dec)
(Two areas per Program)
 - 4. Educational Televisions Programs for Broadcast (10 shows) (Jan - Dec)
 - 5. Outreach Activities to support PHRDC Programs' Information Dissemination Efforts (Jan - Dec)
 - 6. Multi-Media Training Programs for Filipinos and ASEAN nationals (Sept - Oct)
 - 7. Provision of MMD Technical Expertise to the other Programs (Jan - Dec)
 - 8. Counterpart Training for three (3) MMD staff (Jun - July)
 - 9. Technical Services for all programs (Jan - Dec)

1990

- 1. Curriculum Refinement/Modification
 - 1.1 Basics of color Printing (Jan - Dec)
 - 1.2 Multi-Slide Audio-Visual Production (Apr - Jun)
- 2. Courseware Refinement/Modification
 - 2.1 VTR/OHP on Color Printing (Apr - Jun)
 - 2.2 VTR/OHP on Multi-Slide AV Production (Jul - Sept)
- 3. Refinement of Packaged Video Modules on Japanese Experts' Technology Transfer Activities (Jan - Dec)
- 4. Educational Media Programs Production for Television & Radio Broadcast (Apr - Sept)

- 5. Training Programs/Apprenticeship for Filipinos & ASEAN nationals (Sept - Oct)
- 6. Outreach Programs to support Technology Dissemination (Jan - Dec)
- 7. Provision of MMD Technical Expertise to other Programs (Jan - Dec)
- 8. Counterpart Training for MMD Staff (Jun - July)
- 9. Technical Services for all Programs (Jan - Dec)

1991

- 1. Educational Media Programs Production
 - 1.1 Video Programs (Jan - Sept)
 - 1.2 Radio Programs (Mar - Sept)
 - 1.3 PHRDC Monthly Publications (Jan - Dec)
- 2. Outreach Program
 - 2.1 Broadcast & dissemination of ETV materials (Jan - Dec)
 - 2.2 PHRDC Technology Dissemination (Jan - Dec)
 - 2.3 MMD Training/Apprenticeship Programs for ASEAN nationals (Sept - Oct)
 - 2.4 Counterpart training for three (3) MMD staff (Jun - July)
- 3. Technical Services for all Programs (Jan - Dec)

1992

- 1. Educational Media Programs Production (Jan - Sept)
- 2. Outreach Program (Jan - Dec)
- 3. MMD Training Programs (Jan - Dec)
- 4. Technical Services to other Programs (Jan - Dec)
- 5. MMD Training for ASEAN Nationals (Sept - Oct)

PLANS FOR 1988 - 1992
PROGRAM I - INFORMATION COMPUTER SERVICES DIVISION

ACTIVITIES	1988	1989	1990	1991	1992
1.8 Maintenance & Operations of all data bank facilities	Jan - Dec	Jan - Dec	Jan - Dec	Jan - Dec	Jan-Dec
2.0 Upgrading/Improvement of developed information systems					
2.1 Improvement & technical design of communication network for computer systems	Jan - Dec				
2.2 Development of data entry programs & communication related programs	July	Feb			
2.3 Development of additional features to suit current needs		Jan - Dec			
3.0 Conduct massive education program					
3.1 Computer technology teaching to teachers	Jan - Dec	Jan - Dec	Jan - Dec	Jan-Dec	Jan-Dec
3.2 Computer technology teaching to government executives	Jan - Dec	Jan - Dec	Jan - Dec	Jan-Dec	Jan-Dec
3.3 Development of specialized advanced computer courses					
3.3.1 Information Technology		Jan - July			
3.3.2 Structured Cobol		July - Dec			
3.3.3 Systems Programming			Jan - July		
3.3.4 Hardware Engineering			July - Dec		
3.3.5 Systems Engineering				Jan-July	
3.3.6 Digital Systems				July-Dec	
3.3.7 Computer Architecture					Jan-July
3.4 Offering of specialized/ advanced courses	July - Dec	Jan - Dec	Jan - Dec	Jan - Dec	Jan-Dec
4.0 Development of Video Assisted or Computer Assisted-Coursewares		Jan - Dec	Jan - Dec	Jan - Dec	Jan-Dec
4.1 All coursewares developed in # 3					
5.0 Servicing of government Agencies	Jan - Dec	Jan - Dec	Jan - Dec	Jan - Dec	Jan-Dec

PROGRAM II PROJECT PLAN
(1988 - 1992)

OBJECTIVES, SCOPE AND RATIONALE

Program II (Seafarming) is essentially a Research and Development operation, whose other mandated functions; training and extension work, depend heavily on the results of such primary work.

Program II started functional R & D work only in 1985, after a two-year gestation period and while significant results have been achieved to date, these were only basic preliminaries of quite limited applicability outside of the Center. Much remains to be done, and the realities of R & D demand additional investments in time, effort, and physical assets. Only from such would come packaged, appropriate technologies worth disseminating and training people for. These are the bases for the five year plan presented herewith.

In the field of Oyster Cultivation, only the research and development of processed oyster forms (smoked, dried, fermented) could be expected to exhibit substantial completion by the end of 1987. The real core of Japanese developed and transferable technologies would be only about halfway finished by then. Thus, primary data environmental surveys would be limited to the Pangasinan area, and the Center's forecasting capabilities would be no more accurate than that already practiced by the traditional farmers. Japanese grow-out methods by then would also probably not yet reach nor surpass the economic profitability of traditional farms. Whether a truly viable natural depuration site could be located by 1987 is also uncertain, and the promotion of depurated oysters as a health concern may not have taken hold by then also. In other words, all the investments made in SRDC since 1982 would result in only fractional payoffs by 1987.

A more realistic time frame for substantial completion of significant oyster-dedicated technology transfers would be around mid 1990, by which time modern Japanese methodologies could be expected to have gained practical as well as economic acceptance on an appreciable scale.

Regarding species limitations, SRDC belongs to that group of scientific institutions which the Philippines' National Economic Development Authority (NEDA) categorizes as "one-commodity institutions" and which it further assesses as relatively inefficient in asset utilization. There is some substance behind such an assessment, at least as it applies to SRDC. It may be noted that most SRDC facilities and equipment, and even some of its actual research findings, can have quite significant applications outside of food oyster species. This adaptability would be enhanced further in 1987, when a more workable water supply system is put on line, in lieu of the present system.

Apart from SRDC inherent, though incomplete, multi-species adaptability, other factors favor the formulation of such an approach. First, SRDC is the only modern non-freshwater aquatic research institution in the Luzon area. Second, its specific location is in the immediate vicinity of the oldest, most traditional, but very extensive brackishwater fishpond areas of the country. Third, the multi-cropping concept is as valid for the small fish farmers as it is for the small agricultural farmers. Fourth, SRDC has a mandated training function, facilities to match, and there are not that many oyster farmers yet to optimally utilize such. Sixth, there are quite a number of non-freshwater aquatic species which hold considerable promise but nevertheless require further research and development work. Although more detailed studies need to be done, good candidates for consideration at this point include mussel, pearl oyster, scallops, abalone, prawn, mangrove crabs and grouper.

Embarking on an additional course admittedly would entail additional investments in facilities, equipment, and time. However, SRDC already has the core systems, and no highly ambitious research programs are aspired for. Thus, only incremental systems are now sought, and extension of technical assistance till mid- 1992.

Equipment and Budget. Unlike other programs involved with more or less familiar, highly developed technologies, SRDC is delving into a venture with minimal local precedence. Making a detailed equipment proposal now with corresponding budget estimates would thus be somewhat presumptuous, more so since the corollary extension period is itself a presumption. SRDC instead hereby makes a proposal only on the broad outlines of the equipment support desired.

1. Multi-species capable hatchery and grow-out facilities and equipment
2. Additional ecological survey/sampling equipment and facilities for use in the proposed SRDC sub-stations.
3. Additional vehicles for use in the sub-stations.
4. Incremental laboratory equipment/supplies to fill up/ replenish gaps in the existing inventory.

PLANS FOR 1988 to 1992

PROGRAM II - SEAFARMING RESOURCE AND DEVELOPMENT CENTER

ACTIVITIES	1988	1989	1990	1991	1992
RESEARCH AND DEVELOPMENT (inclusive of cooperative works)	:	:	:	:	:
I. OYSTER CULTURE & PROCESSING:	:	:	:	:	:
a). Environmental Survey Monitoring Projects	:	:	:	:	:
1.0 Pangasinan and Region I	:	:	:	:	:
1.1 Seed Collection Sites	: XJan-Dec	: XX	: XX	: XX	: XX
XIdentification	: XXJan-Dec	: Jan - Dec	: Jan - Dec	: Jan-Dec	: Jan-Dec
XX Monitoring	:	:	:	:	:
1.2 Grow-out Sites	: XJan-Dec	: XX	: XX	: XX	: XX
XIdentification	: XXJan-Dec	: Jan - Dec	: Jan - Dec	: Jan-Dec	: Jan-Dec
XX Monitoring	:	:	:	:	:
1.3 Natural Depuration Site	: XJan-Dec	: XX	: XX	: XX	: XX
XIdentification	: XXJan-Dec	: Jan - Dec	: Jan - Dec	: Jan-Dec	: Jan-Dec
XX Monitoring	:	:	:	:	:
2.0 Region IV and Region I Region VIII	:	:	:	:	:
2.1 Seed Collection Sites	: XJan-Dec	: XJan-Dec	: XX	: XX	: XX
XIdentification	:	:	: Jan - Dec	: Jan-Dec	: Jan-Dec
XX Monitoring	:	:	:	:	:
2.2 Grow Out Sites	: XJan-Dec	: XJan-Dec	: XX	: XX	: XX
XIdentification	:	:	: Jan - Dec	: Jan-Dec	: Jan-Dec
XX Monitoring	:	:	:	:	:
2.3 Natural Depuration Sites	: XJan-Dec	: XJan-Dec	:	: XJan-Dec	: XJan-Dec
XIdentification	:	:	:	:	:
XX Monitoring	:	:	:	:	:
3.0 Seed Collection Services	:	: Jan - Dec	: Jan - Dec	: Jan-Dec	: Jan-Dec
b). Culture Methods/Tech- nology Project	:	:	:	:	:
i. Farm Designs/Construc- tion	: Jan-Dec	: Jan - Dec	:	:	:

PLANS FOR 1988-1992.

PROGRAM 11 - SEAFARMING RESOURCE AND DEVELOPMENT CENTER

ACTIVITIES	1988	1989	1990	1991	1992
2. Seed Hardening	Jan-Dec	Jan - Dec			
3. Fouling/Predator Studies		Jan - Dec	Jan - Dec	Jan-Dec	
4. Indoor Breeding Studies		Jan - Dec	Jan - Dec	Jan-Dec	
5. Semi-Commercial Scale	Jan-Dec	Jan - Dec	Jan - Dec	Jan-Dec	Jan-Dec
c). Processing Projects					
1. Product Forms Development & Standardization	Jan-Dec	Jan - Dec	Jan - Dec		
2. Handling/Transport Studies	Jan-Dec	Jan - Dec	Jan - Dec		
3. Market Tests/Research	Jan-Dec	Jan - Dec	Jan - Dec		
d). Microbiology Projects					
1. Artificial Depuration					
1.1 Laboratory Scale	Jan-Dec	Jan - Dec			
1.2 Semi-Commercial Scale		Jan - Dec	Jan - Dec	Jan-Dec	Jan-Dec
2. Microbial Controls/Standards	Jan-Dec	Jan - Dec	Jan - Dec		
3. Microbiological Services	Jan-Dec	Jan - Dec	Jan - Dec	Jan-Dec	Jan-Dec
4. Natural Depuration Studies/Application	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
II. OTHER SHELLFISH/SEA-FARMABLE X SPECIES					
a). Site Identification					
1. Seed Collection Sites	Jan-Dec	Jan - Dec	Jan - Dec	Jan-Dec	Jan-Dec
2. Grow Out Sites	Jan-Dec	Jan - Dec	Jan - Dec	Jan-Dec	Jan-Dec
b). Artificial Breeding/Seed Production		Jan - Dec	Jan - Dec	Jan-Dec	Jan-Dec
c). Culture and Feeding Farm Methods and Construction Designs	Jan-Dec	Jan - Dec	Jan - Dec	Jan-Dec	
d). Product Marketing/Utilization					

PLANS FOR 1988-1992

PROGRAM 11 - SEAFARMING AND RESEARCH DEVELOPMENT CENTER

ACTIVITIES	1988	1989	1990	1991	1992
2. Microbial Aspects	Jan-Dec	Jan - Dec	Jan - Dec	Jan-Dec	
3. Market Research/Testing	Jan-Dec	Jan - Dec	Jan - Dec		
TRAINING PROGRAMS					
I. On Oysters					
1. General Course on Oyster Local: 1988-1992; 4 time/yr ASEAN: not applicable	Jan-Dec	Jan - Dec	Jan - Dec	Jan-Dec	Jan-Dec
2. Specialized Courses					
2.1 Environmental Survey Local: 1988-1992 ASEAN: 1989-92; once/year	Jan-Dec	Jan - Dec	Jan - Dec	Jan-Dec	Jan-Dec
2.2 Farming & Farm Management Local: 1988-92; 2/year ASEAN: 1988-92; 1/year	Jan-Dec Jan-Dec	Jan - Dec Jan - Dec	Jan - Dec Jan - Dec	Jan-Dec Jan-Dec	Jan-Dec Jan-Dec
2.3 Depuration/Microbial Testing Local: 1988-92; 2/year ASEAN: 1990-92; 2/year	Jan-Dec	Jan - Dec	Jan - Dec Jan - Dec	Jan-Dec Jan-Dec	Jan-Dec Jan-Dec
2.4 Artificial Breeding/ Seed Production Local: 1990-92; combined ASEAN: 1990-92 w/ASEAN 1/year			Jan - Dec Jan - Dec	Jan-Dec Jan-Dec	Jan-Dec Jan-Dec
II. Other Species					
a). Special Courses					
1. Artificial Breeding and Seed Production - once a year				Jan-Dec	Jan-Dec
2. Farm Design, Construction and Management - once per species group per year			Jan - Dec	Jan-Dec	Jan-Dec

PLANS FOR 1988-1992

PROGRAM II - SCAPAMING RESEARCH AND DEVELOPMENT CENTER

ACTIVITIES	1988	1989	1990	1991	1992
3. Product Processing/ Utilization	:	:	Jan - Dec	Jan-Dec	Jan-Dec
- once per year	:	:	:	:	:
b) General Course	:	:	:	:	:
- once per species group per year	:	:	Jan - Dec	Jan-Dec	Jan-Dec

**PROGRAM III
PLAN FOR 1988-1992**

Of the total skilled population, there are developed segments which have attained certain levels of mastery, but still require formal advancement and consequently, accreditation recognizing the necessity of enhancing local construction capabilities to respond to domestic and would be market demand for skilled workers supervisors, foremen and middle management level managers have to be trained depending upon the extent of project responsibility which the companies comprising the industry will seek. By and large, Program III will let the market mechanism provide this allocation. By decentralizing the training choices, and providing employing companies the opportunity to signal their choice, Program III hopes to have a responsive program.

Program III hopes to expand its training programs to other areas i.e. instrumentation flexible to the needs of the industry.

PLANS FOR 1988 TO 1992
PROGRAM III - CONSTRUCTION MANPOWER DEVELOPMENT CENTER

ACTIVITIES	1988	1989	1990	1991	1992
1. Teacher Training	Jan - June	Jan - Dec	Jan - Dec	Jan - Dec	Jan - Dec
Continue administering 3 to 4 months teacher training for academic sector, government infrastructure agencies and private construction companies:					
2. Trade Testing/Certification	Jan - Dec	Jan - Dec	Jan - Dec	Jan - Dec	Jan - Dec
Collaborate with authorized bodies/institutions to facilitate establishment of trade testing/certification facilities for construction skills					
Develop software, hardware requirements like TRAINING STANDARDS, TRADE SKILLS STANDARDS and TEST MODULES for testing verification of skills in construction trades					
3. Foremen, Supervisor and Training Managers' Course STTP	Jan - Dec	Jan - Dec	Jan - Dec	Jan - Dec	Jan - Dec
Conduct special short-term course for construction projects/activities					
4. Training on Modern Construction Methods	Jan - Dec				
Conduct training program for construction managers in methods of increasing work productivity					
5. Specialized Training Program	Jan - Dec	Jan - Dec	Jan - Dec	Jan - Dec	Jan - Dec
Conduct specially designed short-term extension programs for construction engineers					
6. ASEAN Training Programme	Jan - Dec	Jan - Dec	Jan - Dec	Jan - Dec	Jan - Dec
Open Training Center to ASEAN member-countries					

PHRDC PROGRAM IV
PLAN FOR 1988-1992

The implementation of PHRDC PROGRAM IV - Cottage and Light Industry by the National Cottage Industries Development Authority (NACIDA) at its Cottage Industry Technology Center (CITC) located at Marikina commenced in the early part of 1983. In its four (4) years of existence, Program IV has almost reached the objectives of the project which is to upgrade and expand the training techniques and consulting capability of technicians, trainers-trainors and instructors in the field of woodworking, bamboo and rattan industries as provided in the Record of Discussion.

Inspite of constraints over the years, Program IV has provided the counterpart responsibilities such as requisite physical facilities, trainings manpower requirements, administrative support staff, and was able to establish the three (3) Regional Cottage Industry Technology Centers (RCITC) in Region I for Bamboocraft, Region II for Woodworking and Region X for Rattancraft. Soon to be established in Region XI is for woodworking.

The results of training conducted at CITC and the RCITC's encouraged Program IV to concentrate vigorously on technology transfer by implementing more training programs not only at the Marikina center but by regionalizing training efforts thru out the country.

This is in line with government policy of developing and promoting cottage Industries at the grass roots level to achieve socio-economic upliftment.

PLANS FOR 1988-1992

PROGRAM IV
COTTAGE AND LIGHT INDUSTRIES DEVELOPMENT CENTER

ACTIVITIES	1988	1989	1990	1991	1992
1. Establishment of Regional Training Centers fully equipped to include audio-visuals, vehicles, building and facilities					
RI (Baguio) Woodworking	Jan-Dec				
RII (Tuguegarao) Bamboo-craft	Jan-Dec				
RIII (San Fernando)			Jan-Dec		
RIV (Mindoro) Wood/Bamboo Rattan		Jan-Dec			
RV (Legaspi City) Bamboo-craft			Jan-Dec		
RVI (Iloilo City) Loomweaving		Jan-Dec			
RVII (Cebu) Shellcraft		Jan-Dec			
RIX (Zamboanga) Brassware			Jan-Dec		
RX (Cagayan de Oro) Bamboo-craft		Jan-Dec			
RXI (Davao City) Woodworking	Jan-Dec				
RXII (Cotabato) Weaving	Jan-Dec				
2. Training in the following areas:					
a. Bamboo-craft	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
b. Woodcraft	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
c. Rattan-craft	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
3. ASEAN Training	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec

E. Requested Assistance from Japan

With the expiration of the Records of Discussion by 1987, the Government of the Philippines sees the urgency to expand Japanese assistance considering the emerging role of the Center in the over-all thrust of the new government towards rural development and livelihood generation to achieve economic recovery.

The over-all assistance being requested by the Philippine Government comes in the form of

- a). Grant Aid
- b). Technical Cooperation
- c). Regional Training

The total amount being requested by the Philippine Government is as follows:

- 1. Grant Aid (Programs I,III,IV) - \$3,153,000
- 2. Technical Cooperation
 - a. Experts
 - a. Long Term - 45
 - b. Short Term - 98
 - b. Trainees - 105
 - c. Equipment \$1,008,000
 - d. Spare Parts and Supplies 10,000
 - e. Books and Softwares 300,000
 - f. Regional Funding
 - 1. Training 1,822,000
 - 2. Research and Development 212,000
 - 3. Publication 50,000

The above assistance shall be utilized in order for the Center to continuously undertake the following:

- a). To service the different training needs not only of the participating agencies but other public offices/agencies and requirements of the private sectors. This move will facilitate the testing and evaluation of the technologies acquired from Japan to evolve the appropriated, feasible and adaptable technology that must be disseminated to the grassroots.
- b). To supervise the conduct of technology transfer in the various programs and training sites.
- c). To continue to serve as a National Center, establishing appropriate linkages with the other ASEAN Centers and the Okinawa International Center.
- d). To expand the utility of the donated facilities as training centers increasing the pool of trainers and training facilities available in the regions to support various training requirements.

CENTER

1.0 TECHNICAL COOPERATION	1988	1989	1990	1991	1992
1.1 EXPERTS	2	2	2	2	2
1.2 Scholarships (#Persons Man-Months)	2/6	2/6	2/6	2/4	1/2
1.3 Books and Softwares	\$ 10000	\$10000	\$10000	\$10000	\$10000
1.4 Local HRD Workshops/Seminars (2 time per year)	60000	60000	60000	60000	30000
SUB-TOTAL	\$ 70000	70000	70000	70000	40000
TOTAL = 320,000					
2.0 REGIONAL FUNDING	1988	1989	1990	1991	1992
2.1 Trainings/Workshops/Seminars (2 times per year)	\$72000	\$72000	\$72000	\$72000	\$72000
2.2 Research and Development	20000	20000	20000	20000	20000
2.3 Publications	10000	10000	10000	10000	10000
SUB-TOTAL	\$102000	102000	102000	102000	102000
TOTAL = \$ 510,000					

PROGRAM I	1988	1989	1990	1991	1992
GRANT AID					
1.0 Multi-Media Equipment:					
1.1 (3) Production vans					
equipped with	\$100000	\$100000	100000		
U-matic Cameras,					
recorders, monitor,					
peripheral equipt.					
for field					
operations					
1.2 Photo-lab facilities	\$ 30000				
1.3 TV special effects		50000			
system					
(CRK, WEX, SE0)					
1.4 Beta dubbing					
facilities		20000			
1.5 2-way radio comm.			50000		
SUBTOTAL	\$130000	\$170000	\$ 150000		
2.0 Multi-Media "Garage"		\$200000			
(production van					
storage/hook-up,					
photolab, voice					
studio					
SUBTOTAL		\$200000			
3.0 Computer Equipment					
3.1 6 units NEC APC III	\$ 45000				
w/ monitor, keyboard					
lightpen, disk drives:					
printer, (2=Prog I,					
2=Prog II, 1=Prog III:					
1=Prog IV)					
3.2 1 set software	5000				
3.3 1 local area network	6000				
unit w/ 3 units disk					
packs (20 MB)	12000				
3.4 2 units tape drives					
w/ utilities	10000				
3.5 communication					
facilities	10000				
3.6 1 unit decolator &					
bursting machine	5000				
SUBTOTAL	\$ 93000				
TOTALS	\$223000	370000	150000		
GRAND TOTAL	\$ 743000				

PROGRAM I	1988	1989	1990	1991	1992
TECHNICAL COOPERATION					
1.0 Multi-Media short-term Experts (# persons/2man/months)					
1.1 expert in computer graphics	2				
1.2 expert in education media evaluation		2			
1.3 expert in education tech			2		
1.4 expert in light & sound				2	
1.5 expert in TV eng'g					2
2.0 Computer short-term Experts (#persons/2man/months)					
2.1 Expert in					
a. Local Area Networking for Microcomputer	1				
b. Data Communication Engineering	1				
c. Data Base Design for Remote Job Processing	1				
2.2 Expert in					
b. Computer Aided Instructions		1			
SHORT-TERM EXPERTS SUBTOTAL:	5	3	2	2	2
TOTAL	14				
3.0 Training Scholarships: (#persons/2man-months)					
3.1 Multi-Media Trainees	3	3	3	3	3
3.2 Computer Trainees	3	3	2		
TRAINEES SUBTOTAL	6	6	5	3	3
TOTAL	23				
4.0 Additions (Multi-Media equipment to expand existing system)					
4.1 Spareparts & Supplies: for MMD VTR Equipment: camera pick-up tubes; recorder video heads, etc.; tapes (U-matic)					

Beta and Audio)	:\$ 32000	:	:	:	:	:	:
4.2 Editing facilities	:	:	:	:	:	:	:
for Beta format	:\$ 30000	:	:	:	:	:	:
4.3 Audio/Sound Equipment:	:	:	:	:	:	:	:
for voice recording	:	:	:\$ 51000	:	:	:	:
studio	:	:	:	:	:	:	:
4.4 Editing facilities	:	:	:	:	:	:	:
for U-matic format	:	:	:	:	:	:	:
(w/ dynamic tracking	:	:	:	:	:	:	:
& slow motion features	:\$100000	:	:	:	:	:	:
4.5 Studio lighting	:	:	:	:	:	:	:
Facilities	:	:	:\$ 35000	:	:	:	:

SUBTOTAL	:\$ 62000	:\$100000	:\$ 86000	:	:	:	:

5.8 Computer Spare Parts	:	:	:	:	:	:	:
& Supplies	:\$ 10000	:	:	:	:	:	:

6.8 Books & Softwares	:\$ 10000	:\$ 10000	:\$ 10000	:\$ 10000	:\$10000	:\$10000	:\$10000

TOTAL	:\$ 82000	:\$110000	:\$ 96000	:\$ 10000	:\$10000	:\$10000	:\$10000

GRAND TOTAL	* 3880000						

PROGRAM I	1988	1989	1990	1991	1992
ASEAN REGIONAL FUNDING					
1.0 Multi-Media Courses					
1.1 Basic Tv Production Techniques for ETV (2 weeks x 12 ASEAN Participants)	\$ 38000				
1.2 Basic Media Prod. Techniques (2 months x 12 ASEAN Participants)		\$ 96000	96000	96000	96000
2.0 Computer Courses (1 week x 20 ASEAN participants)	\$ 32000	32000			
3.0 ASEAN WIDE RESEARCH State of Educational Media in ASEAN - baseline survey - second survey	56000				56000
TOTAL	\$126000	\$128000	\$ 96000	\$ 96000	152000
GRAND TOTAL	\$ 598000				

PROGRAM I SUMMARY

1.0	GRANT AID		\$ 743000
	MMD	\$ 650000	
	ICSD	93000	
2.0	TECHNICAL COOPERATION		\$ 308000
	SHORT-TERM EXPERTS		14
	MMD	10	
	ICSD	4	
	TRAINEES		23
	MMD	15	
	ICSD	8	
	EQUIPMENT/SPARES		
	MMD	\$ 248000	
	ICSD	10000	
	BOOKS/SOFTWARES	\$ 50000	
3.0	REGIONAL FUNDING		\$ 598000
	TRAINING COURSES		
	MMD	\$ 422000	
	ICSD	64000	
	RESEARCH	112000	
	GRAND TOTAL		\$1649000

PROGRAM II

TECHNICAL COOPERATION

YEAR REQUEST	1988	1989	1990	1991	1992	TOTAL
A. Long-Term (No. of experts/man-months)	3/36	3/36	3/36	3/36	3/36	15/180
B. Short Term Expert (No. of experts/man-months)	4/28	4/28	4/28	4/28	4/28	20/140
C. Scholarship (No. of grants/man-months)	5/15	4/12	3/3	3/3	2/6	17/51
D. Books and Softwares	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$50,000

E. Additional Equipment:

1. Multi-species capable hatchery and grow-out facilities.
2. Additional ecological survey/sampling equipment.
3. Additional vehicles for use in sub-stations.
4. Incremental laboratory equipment/supplies to fill up gaps in the existing inventory.

PROGRAM III

1.8 Grant Aid (1988)

In order for Program III to respond to the increasing demand for training facilities have to be expanded to accomodate trainees. At present, enrollees are limited since the present dormitory can only house sixty (60) participants. Facilities like instrumentation devices and additional workshop rooms are necessary for Program III to be able to expand its training into new course areas. An amount of \$ 1.11 million shall be needed for this purpose.

- A. Building of a carpentry /woodworking shop - \$ 438,000
- B. Construction of instrumentation laboratory/workshop - 682,000

TOTAL \$ 1,110,000

2.8 Technical Cooperation

YEAR	1988	1989	1990	1991	1992	TOTAL
2.1 Long Term Expert (no. of experts/man-months)	4/ 48	4/ 48	4/ 48	4/ 48	4/ 48	20/ 240
2.2 Short Term Expert (no. of experts/man-months)	9/ 18	9/ 18	9/ 18	9/ 18	9/ 18	45/ 90
2.3 Scholarship (no. of grants/man-months)	10/ 60	10/ 60	10/ 60	10/ 60	10/ 60	30/ 180
2.4 Books/Manual/Software	\$ 75,000	\$ 75,000				\$ 150,000
2.5 Training Equipment/ Parts/Consumables/ Mobile Training Van	\$ 565,000	\$ 185,000				\$ 750,000

PROGRAM IV

1.0 Grant Aid

To continue the implementation of training programs under Program IV for participants from other Government agencies and from the private sector, regional cottage industry training Centers shall be established. These Centers will conduct training courses for producers, technicians from the public and private sectors in these regions. The program will allow for expansion of the roster of local experts since people other than CITC Program IV personnel will be trained. The amount of \$1.3M will be needed to develop eleven (11) regional training centers.

I. GRANT-IN-AID PORTION:

	1988	1989	1990	1991	1992
A. Establishment of Regional Training Centers fully equipped to include Audio Visuals, Vehicles, Building and Facilities.					
R-I (Baguio) Woodworking	\$75,000				
R-II (Tuguegarao) Bamboocraft	25,000				
R-III (Sn Fernando)			\$100,000		
R-IV		\$100,000			
R-V (Legaspi City) Bamboocraft			50,000		
R-VI (Iloilo City) Loomweaving		50,000			
R-VII (Cebu) Shellcraft		50,000			
R-IX (Zamboanga) Brassware			50,000		
R-X (Cagayan de Oro) Bamboocraft		50,000			
R-XI (Davao City) Woodworking	25,000				
R-XII (Cotabato) Weaving	25,000				
B. Request for replacement parts: additional power tools, small items for R-I to R-XII				\$200,000	\$100,000
C. Concrete building to house CITC showroom, Audio Visual Projection room, three (3) lecture rooms and social hall; fully equipped for use of the ASEAN Project Phase.	\$200,000				
D. Bamboo Preservation and Treatment Laboratory fully equipped with apparatus, air-con, others.	\$200,000				
SUB-TOTAL	\$550,000	\$250,000	\$200,000	\$200,000	\$100,000
TOTAL = 1,300,000					

TECHNICAL COOPERATION PORTION:

	1988	1989	1990	1991	1992
A. Request for Short Term Experts for Regional Trng. Centers.					
1. Woodworking Expert	1 for 4 months	1 for 2 months	2 for 2 months	2 for 2 months	1 for 2 months
2. Bamboocraft Expert	1 for 5 months	1 for 5 months	2 for 2 months	2 for 2 months	1 for 2 months
3. Rattancraft Expert	1 for 2 months	1 for 2 months	1 for 2 months	1 for 2 months	1 for 2 months
TOTAL = 19	3	3	5	5	3
B. Scholarship request for Regional personnel:					
1. Woodworking	2	2	2	2	1
2. Bamboocraft	2	2	2	2	1
3. Rattancraft	2/6	1/5	1/5	1/5	1/5
TOTAL = 26					

	1988	1989	1990	1991	1992
III. ASEAN PROJECT PHASE	Tech. Trng.	Mgt. Trng.	Exchange of Trainees among ASEAN on Wood/Bambo/Rattan	Accept other ASEAN Trainees in Wood/Bamboo/Rattan	Accept ASEAN trainees
1. Woodworking	10Px3mox 3000 = \$90,000	10Px1mox 3000 = \$30,000			
2. Bamboocraft	10Px2mox 3000 = \$60,00	10Px1mox 3000 = \$30,00	Trng. of trainors in Okinawa	20Px3mox 3500 = \$210,000	20Px3mox 3500 = \$210,000
3. Rattancraft	10Px1mox 3000 = \$30,000	10Px1mox 3000 = \$30,000			
SUB-TOTAL	\$180,000	\$90,000	\$150,000	\$120,000	\$210,000
TOTAL = 750,000					

Note: P-persons, mo-month

F. Organization & Administration

F. ORGANIZATIONAL STRUCTURE

Please refer to attached organizational chart.

The broad organizational components, their composition and functions are stated below:

1. Governing Council

The Governing Council is the policy-making body of the Center with the Minister of Human Settlements as Chairman, and the Minister of Foreign Affairs as Vice-Chairman; the Ministers of Budget, Finance, Agriculture, Natural Resources, Trade and Industry; Director-General of National Economic and Development Authority and the President of the University of Life as members.

2. Joint Steering Committee

The Joint Steering Committee assists the Governing Council in reviewing and recommending policies and guidelines appropriate to the Center's programs and operations. The Committee is composed of the PHRDC Secretary-General, representatives of the lead implementing agencies and NEDA as well as officials from the Japanese Embassy and/or Japan International Cooperation Agency.

3. Office of the Secretary-General

The Office of the Secretary-General (OSG) is responsible for the implementation of policies, orders and directives and the supervision of total operations of the Center and Programs I and II. The Secretary-General is assisted by an Executive, Administration/Finance, and a Technical Services Staff. The Technical Services

Division itself handles program liaison, learning materials development, orientation and report preparation, training management and monitoring and technical cooperation secretariat.

As mentioned, the OSG directly administers Program I and II, while it relates to Programs III and IV liaison/coordination functions.

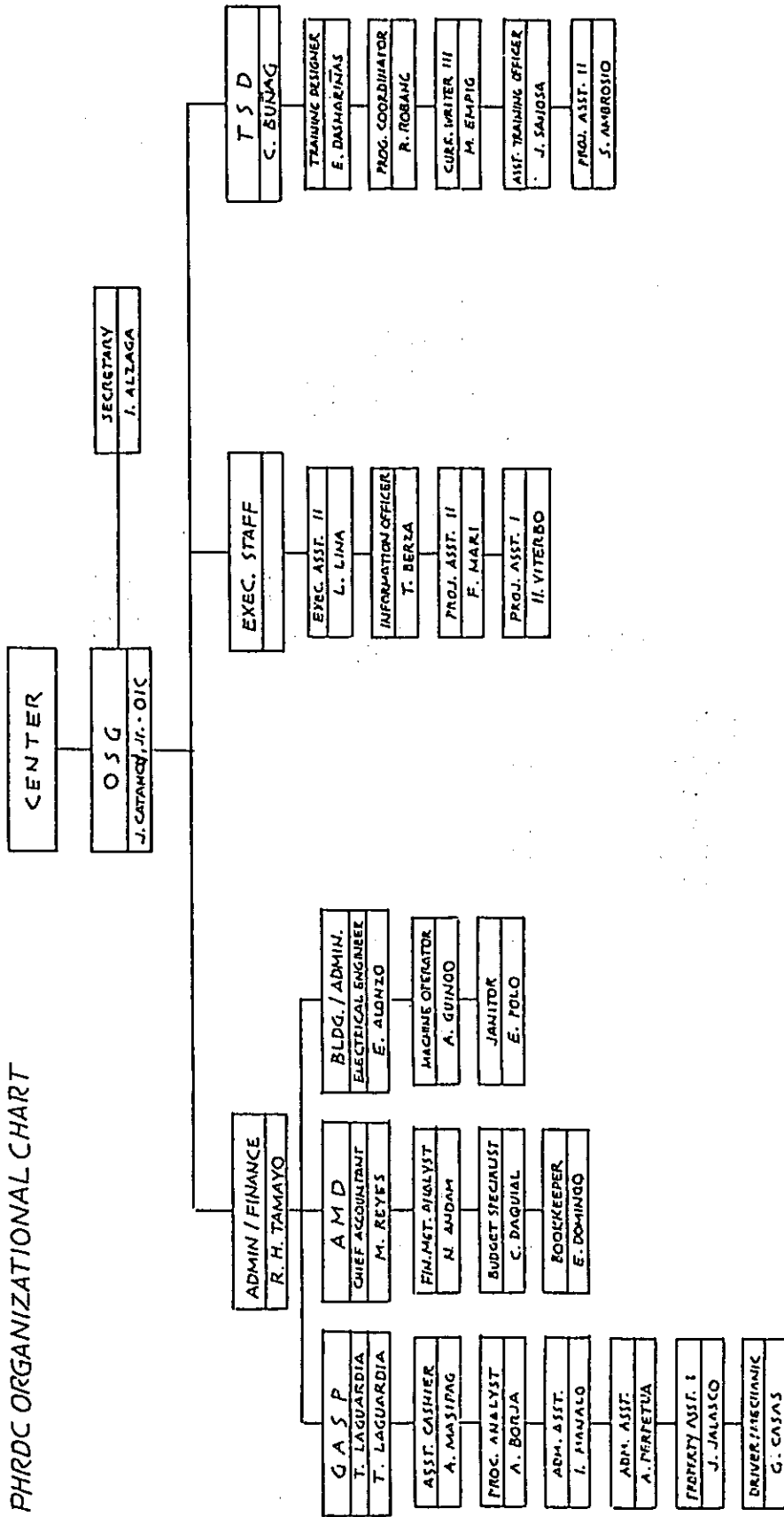
ORGANIZATION AND ADMINISTRATION

The Center implements Program I and Program II with an authority given by the Ministry of Human Settlements. The budget counterparts are likewise released to the

Center and are administered for Programs I and II.

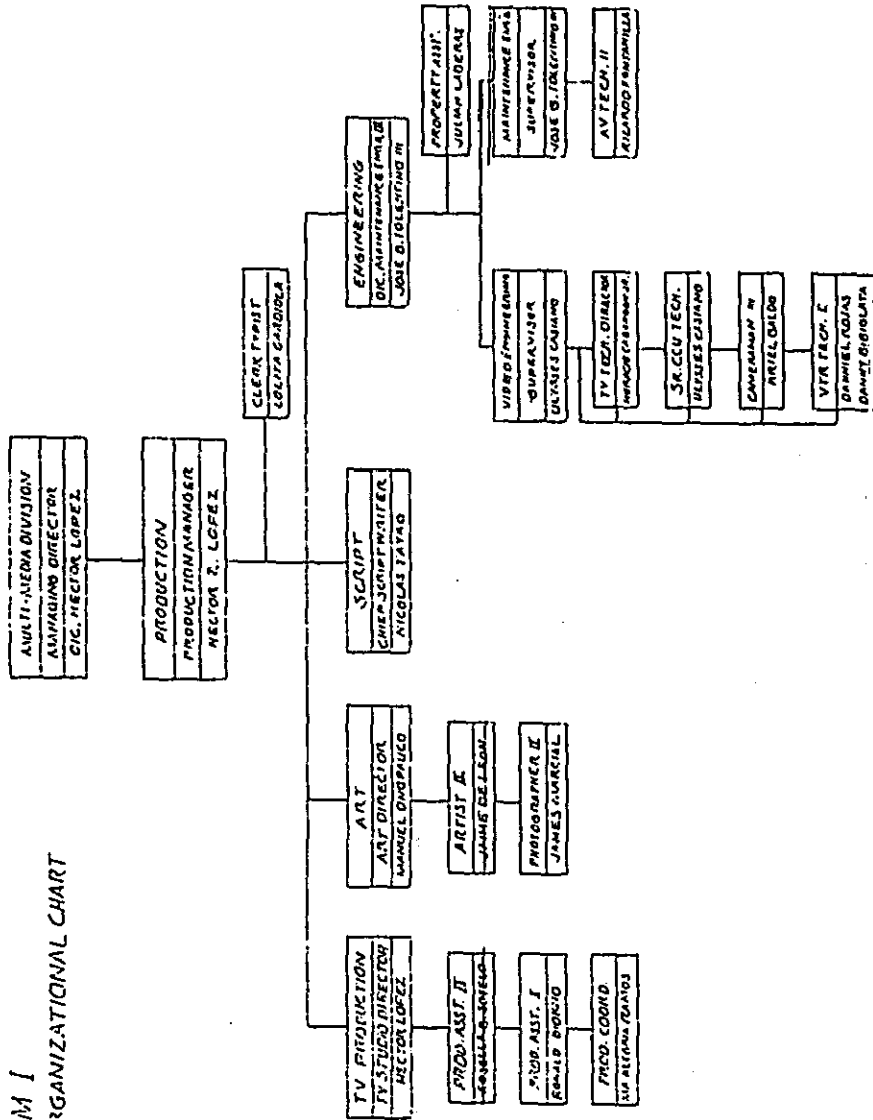
Programs III and IV are implemented by the Ministry of Trade and Industry with the corresponding budget counterparts released thru the same ministry.

PHRDC ORGANIZATIONAL CHART

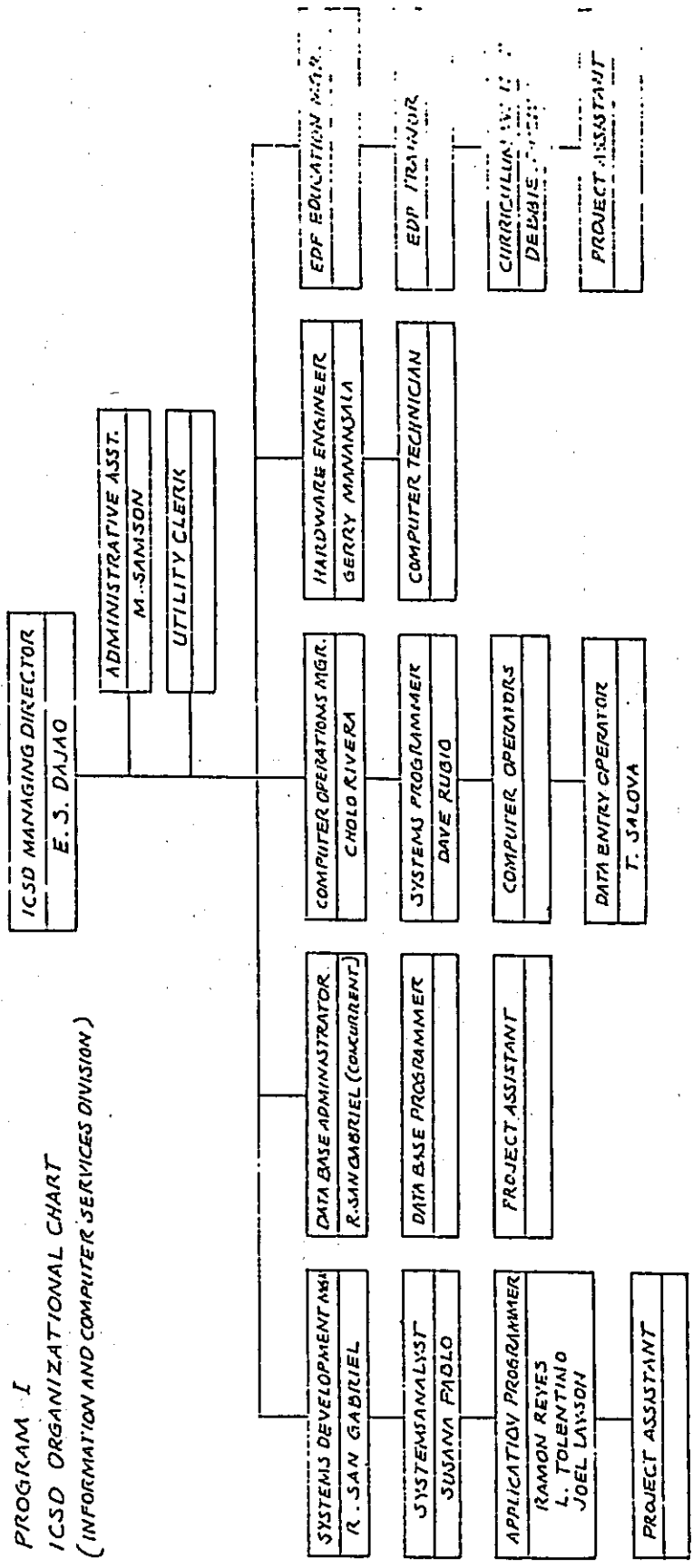


PHRDC Organizational Chart

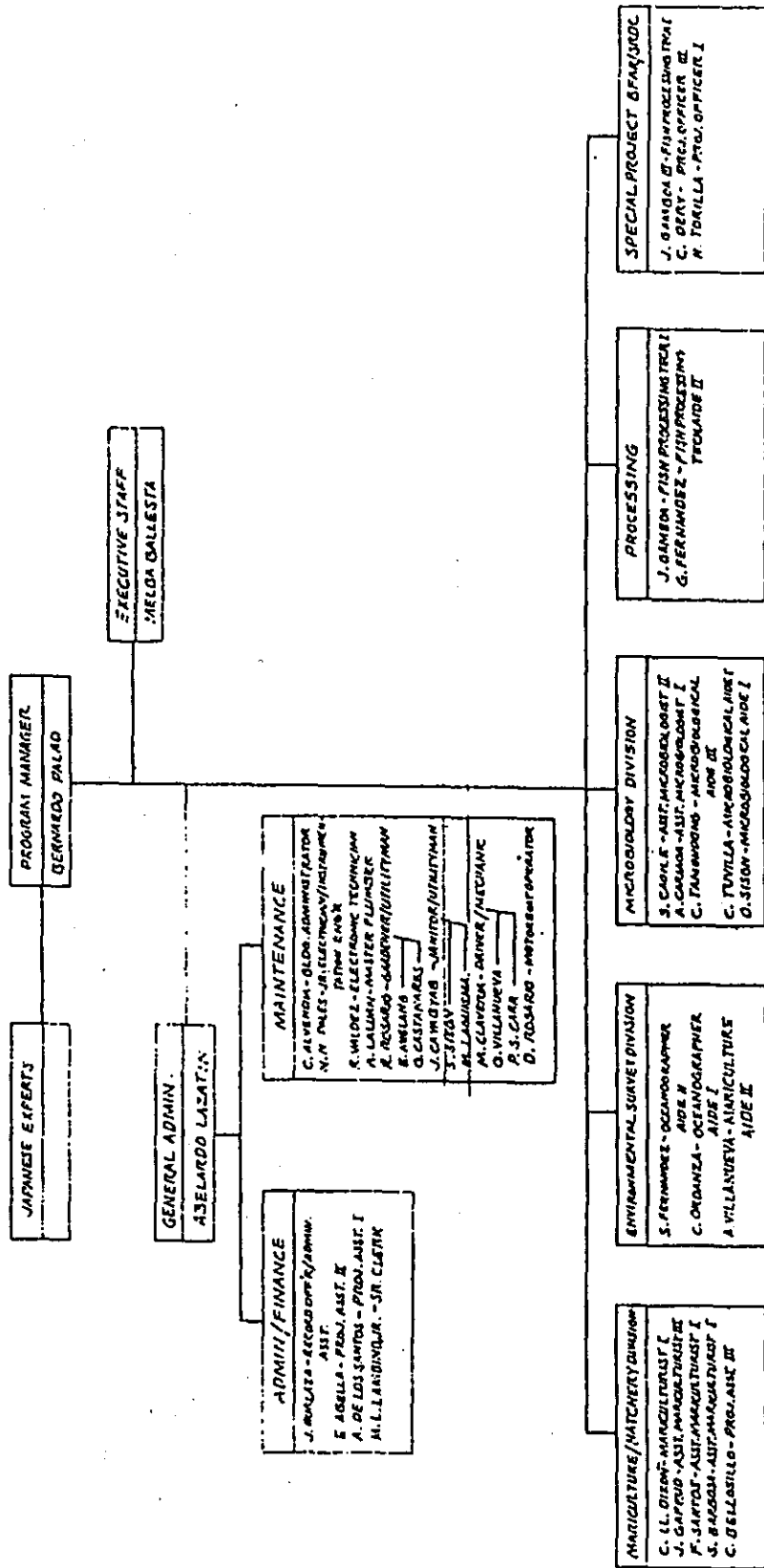
PROGRAM I
MMMD ORGANIZATIONAL CHART

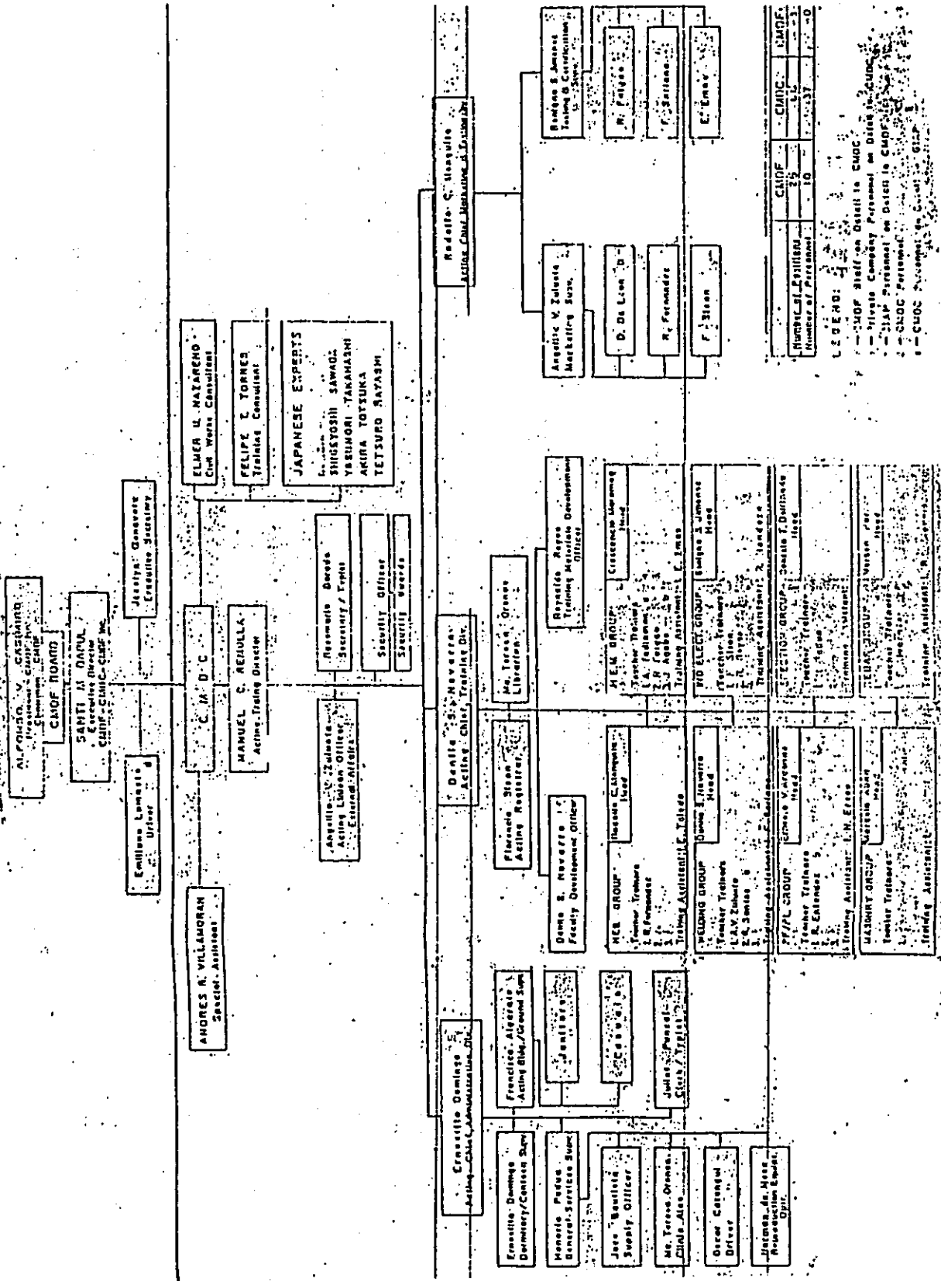


PROGRAM I
 ICSD ORGANIZATIONAL CHART
 (INFORMATION AND COMPUTER SERVICES DIVISION)



PROGRAM II
ORGANIZATIONAL CHART



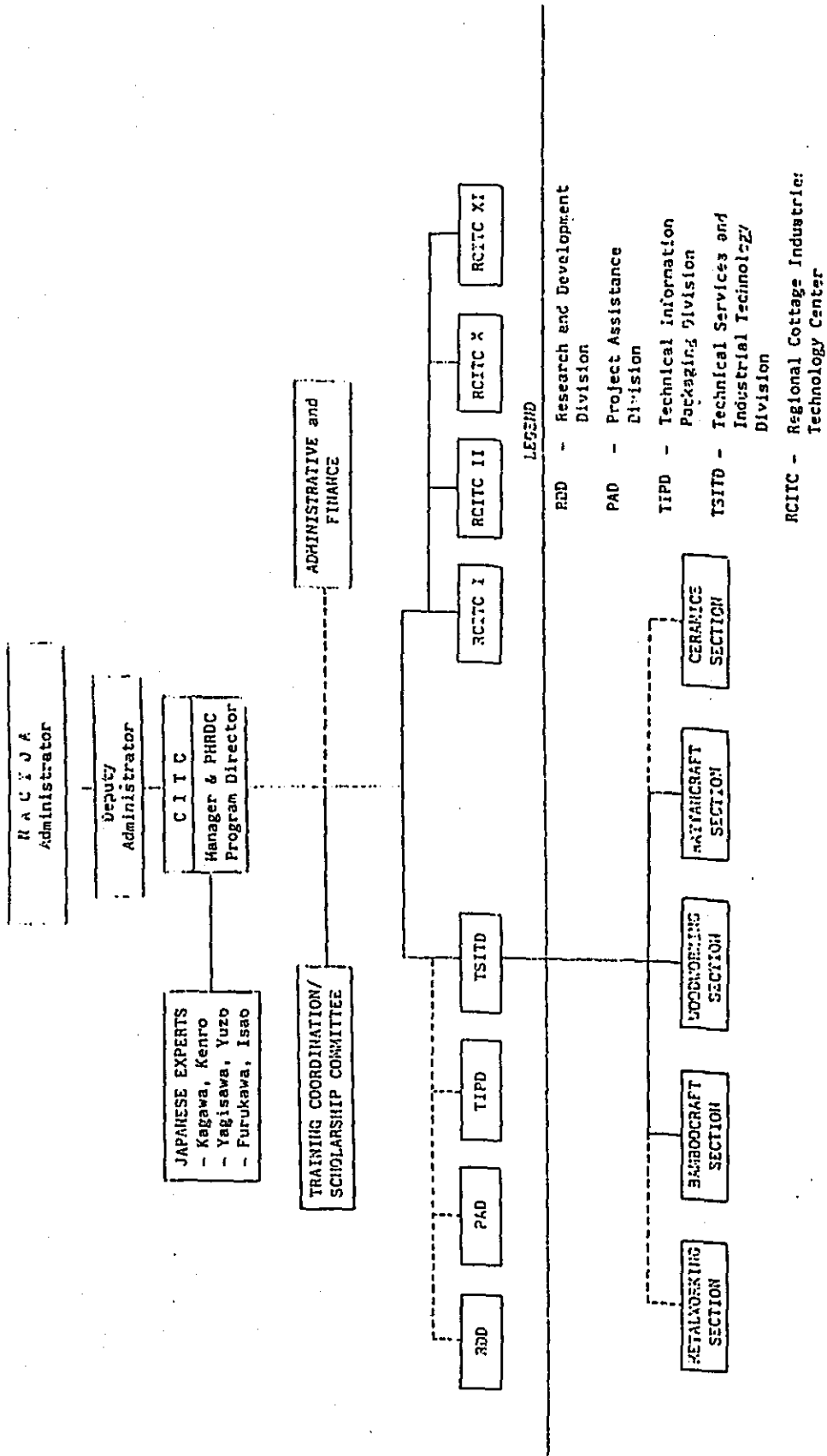


Number of Personnel	CMDF	CMDC	EMDF
10	10	10	10

LEGEND:

- CMDF Staff on Detail to CMDC
- Private Company Personnel on Detail to CMDF
- CMDF Personnel on Detail to CMDC
- CMDC Personnel on Detail to CMDF
- CMDC Personnel on Detail to CMDF

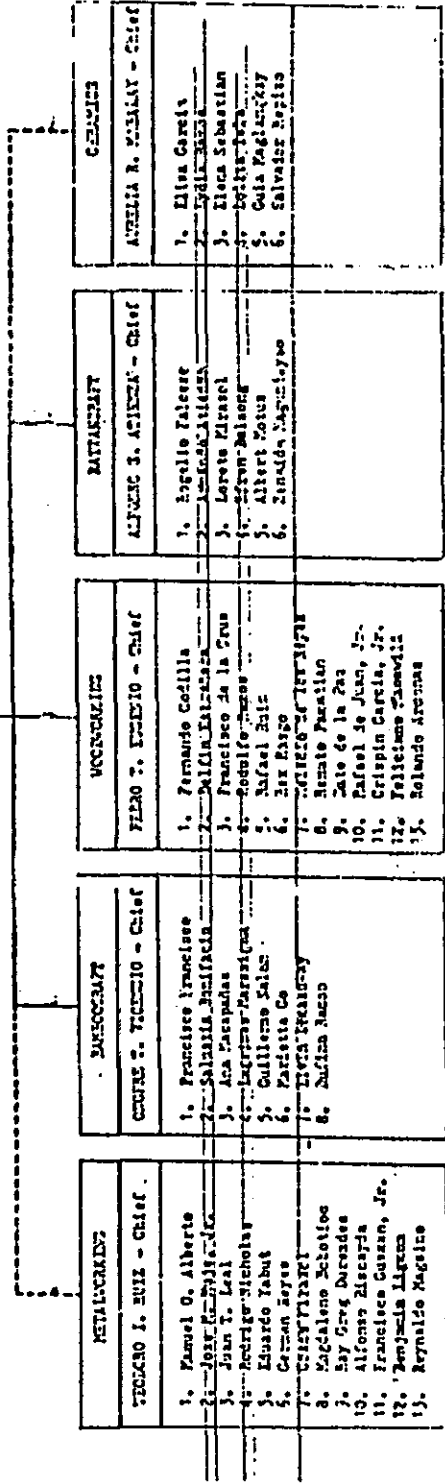
DMRC PROGRAM IN ORGANIZATIONAL CHART



TECHNICAL SERVICES & INDUSTRIAL TECHNOLOGY DIVISIONS
 JORGE E. MUÑOZ
 Chief

PROGRAM IV
 TECHNICAL SERVICES & INDUSTRIAL
 TECHNOLOGY DIVISION
 ORGANIZATIONAL CHART

José G. Pedraza



G. Counterpart Funding

G. COUNTERPART FUNDING

The donation from Japan is not in cash form so expenses for personnel, operation and maintenance is a Philippine counterpart.

The counterpart funds received by the Project from 1983 to 1986 from the Ministry of the Budget is 51.2 % less than what was requested broken down as follows:

	REQUESTED	APPROPRIATED	RELEASES
Center	19,457,602	15,592,799	8,987,161
Program I	29,530,707	12,747,500	10,023,467
Program II	27,929,039	14,517,000	12,752,498
Program III	37,981,000	27,140,000	27,140,000
	=====	=====	=====
	114,898,348	69,997,299	58,903,126

Most of the expenses in 1983 - 1984 are for land development, fencing, supply of electricity, water and other capital outlays. Direct costs for training were only received in 1985. Most of the requirements for budget in 1986 are for maintenance of the donated equipment with the suppliers warranty expiring in December 1985 (which is one-year after delivery and turn-over).

No permanent positions (except for some items in NACIDA) for personnel in all the programs have been provided for even if the Centers are permanent structures set up for human resources training.

BUDGET

(in P)

CENTER	1983	1984	1985	1986	TOTAL	1987
01	RQ1,192,710 AP 596,355 RL 596,355	RQ2,001,000 AP1,192,000 AP1,192,000	RQ2,213,717 AP 800,000 RL 800,000	RQ2,213,717 AP 800,000 RL1,230,017	RQ7,621,144 AP3,388,355 RL3,819,172	1,575,000
02	RQ1,934,447 AP 681,222 RL 681,222	RQ2,900,000 AP3,793,000 RL1,636,000	RQ2,036,283 AP3,450,000 RL1,200,000	RQ2,786,283 AP3,450,000 RL 820,545	RQ9,657,013 AP11374,222 RL4,337,767	3,265,000
					TOTAL	4,840,000
03	RQ2,000,445 AP 815,222 RL 815,222	RQ 99,000 AP 15,000 RL 15,000	RQ AP RL	RQ AP RL	RQ2,179,445 AP 830,222 RL 830,222	
SUB-TOTAL	RQ5,207,602 AP2,092,799 RL2,092,799	RQ5,000,000 AP5,000,000 RL2,843,000	RQ4,250,000 AP4,250,000 RL2,000,000	RQ5,000,000 AP4,250,000 RL2,051,362	RQ19,457,602 AP15,592,799 RL 8,987,161	

Note: RQ - request
AP - appropriated
RL - release

01 - Personal Services
02 - Maintenance and Operating Expenses
03 - Capital Outlay
03-31 - Equipment Outlay
03-32 - Infrastructure

BUDGET

(in P)

PRGM	1983	1984	1985	1986	TOTAL	1987
01	RQ 169,200	RQ2,291,997	RQ2,485,983	RQ5,426,000	RQ10,373,100	RQ 1,006,000
	AP	AP 515,000	AP3,347,000	AP3,347,000	AP 7,209,000	
	RL	RL 515,000	RL3,347,000	RL1,360,700	RL 5,222,700	
02	RQ 127,000	RQ3,318,400	RQ3,457,017	RQ8,551,000	RQ15,453,417	RQ 6,676,000
	AP	AP 555,600	AP2,596,000	AP2,095,000	AP 5,246,600	
	RL	RL 555,600	RL2,596,000	RL 907,187	RL 4,058,067	
03	RQ 487,500	RQ2,185,610	RQ	RQ1,031,000	RQ 3,704,110	TOTAL 8,482,000
	AP	AP 291,820	AP	AP	AP 219,820	
	RL 450,000	RL 291,820	RL	RL	RL 741,820	
SUB-						
TOTAL	RQ 783,700	7,796,007	5,943,000	15,000,000	29,523,707	
	AP	1,362,500	5,943,000	5,442,000	12,747,500	
	RL 450,000	1,362,500	5,943,000	2,267,967	10,023,467	

Note: RQ-request
 AP-appropriated
 RL-release
 REG-regular
 SUP-supplementary

01- Personal Services
 02-Maintenance and Operating Expenses
 03-Capital Outlay
 03-31- Equipment Outlay
 03-32- Infrastructure

BUDGET

PROGRAM 11:	1983	1984	1985	1986	TOTAL	1987
01	:RQ 324,888:	RQ1,718,484:	RQ3,238,000:	RQ3,320,000:	RQ8,593,364:	RQ2,852,000
	:AP	: AP 400,000:	AP3,238,000:	AP3,320,000:	AP6,950,000:	
	:RL	: RL 400,000:	RL2,136,499:	RL2,136,499:	RL4,672,998:	
02	:RQ 350,116:	RQ4,188,199:	RQ3,888,000:	RQ1,193,000:	RQ9,539,315:	RQ4,217,000
	:AP	: AP 700,000:	AP3,888,000:	AP1,193,000:	AP5,781,000:	
	:RL	: RL 700,000:	RL3,888,000:	RL1,193,000:	RL5,781,000:	
03	:RQ1,895,610:	RQ3,788,750:	RQ	:RQ	:RQ9,796,360:	TOTAL7,869,800
	:AP 761,000:	AP1,825,000:	AP	:AP	:AP1,786,000:	
	:RL 761,000:	RL1,537,000:	RL	:RL	:RL2,298,500:	
SUB-TOTAL	:RQ6,778,684:	9,527,433:	7,118,000:	4,513,000:	27,929,039:	
	:AP 761,000:	2,637,000:	7,118,000:	4,513,000:	14,517,000:	
	:RL 761,000:	2,637,500:	6,824,499:	3,329,499:	12,752,498:	

Note: RD-request
 AP-appropriated
 RL-release

01-Personal Services
 02-Maintenance and Operating Expenses
 03-Capital Outlay
 03-31-Equipment Outlay
 03-32-Infrastructure

BUDGET

(In P)

PROGRAM III	1983	1984	1985	1986	TOTAL	1987
01	RQ	RQ1,624,000	RQ	RQ3,761,000	RQ9,980,000	RQ2511,000
			Reg. 1675,000			
			Sup. 2920,000			
	AP	AP 977,000	AP1,953,000	AP2,406,000	AP5,336,000	
	RL	RL 977,000	RL	RL2,406,000	RL5,336,000	
			Reg. 1100,000			
			Sup. 853,000			
02	RQ	RQ 921,000	RQ	RQ3,360,000	RQ7,124,000	RQ4032,000
			Reg. 1013,000			
			Sup. 1830,000			
	AP	AP 617,000	AP2,430,000	AP3,360,000	AP6,407,000	
	RL	RL 617,000	RL	RL3,360,000	RL6,407,000	
			Reg. 971,000			
			Sup. 1459,000			
03	RQ	RQ 420,000	RQ	RQ2,754,000	RQ6,252,000	RQ
			Reg. 780,000			
			Sup. 2290,000			
	AP	AP 350,000	AP1,721,000	AP2,754,000	AP4,825,000	
	RL	RL 350,000	RL	RL2,754,000	RL4825,000	
			Reg.			
			Sup. 1721,000			
03-31	RQ	RQ 692,000	RQ	RQ2,485,000	RQ5,344,000	RQ2485,000
			Reg. 481,000			
			Sup. 1686,000			
	AP	AP 485,000	AP1,471,000	AP1,128,000	AP3,884,000	
	RL	RL 485,000	RL	RL1,128,000	RL3,884,000	
			Reg. 361,000			
			Sup. 1110,000			

BUDGET

(in P)

PROGRAM III	1983	1984	1985	1986	TOTAL	1987
03-32	RQ3,827,000	RQ	RQ	RQ2,800,000	RQ9,281,000	RQ6384,000
			Reg.			
			Sup.2654,000			
	AP3,800,000	AP	AP2,320,000	AP2,168,000	AP7,488,000	
	RL3,800,000	RL	RL	RL2,168,000	RL7,488,000	
			Reg.			
			Sup.2320,000			
TOTAL	RQ3,827,000	3,657,000	RQ	15,168,000	37,981,000	15,412,000
			Reg.3949,000			
			Sup.11388000			
	AP3,800,000	2,429,000	9,895,000	11,816,000	27,140,000	
	RL3,800,000	2,429,000	RL	11,816,000	27,140,000	
			Reg.2432,000			
			Sup.7463,000			

Note: RQ - request
 AP - appropriated
 RL - release
 REG - regular
 SUP - supplementary

01 - Personal Services
 02 - Maintenance and Operating Expenses
 03 - Capital Outlay
 03-31 - Equipment Outlay
 03-32 - Infrastructure

H. Appendices

SUMMARY OF EXPERTS DISPATCHED
1983 to 1986

PROGRAM YEAR	I		II		III		IV		TOTAL	
	LT	ST	LT	ST	LT	ST	LT	ST	LT	ST
1983	2	-	2	-	2	-	3	-	9	-
1984	-	6	-	2	3	-	-	-	3	10
1985	1	1	1	3	2	9	1	1	5	14
1986	1	-	1	-	1	6	-	-	3	6
TOTAL	4	7	4	5	8	15	4	3	20	30
GRAND TOTAL:	11		9		23		7		58	

PROGRAM I EXPERTS

YEAR	NAME	AREA OF SPECIALIZATION	PERIOD OF ASSIGNMENT
1983	: X HIDEO TAKEI	: Chief Advisor	: May 23, 1983-
	: :	: :	: May 31, 1984
	: X FUMIHIKO HAMAZAKI	: Coordinator	: May 23, 1983
	: :	: :	: May 22, 1985
1984	: + RYUJI MIENO	: Systems Analyst Basic	: July 23, 1984
	: :	: Design	: August 3, 1984
	: + FUMIO SHIMONAKA	: Systems Analyst General	: July 3, 1984
	: :	: Design	: Dec. 21, 1984
	: + MASAYUKI OKUNOMIYA	: Computer System Detailed	: Oct. 10, 1984
	: :	: Design	: Dec. 21, 1984
	: + KAZUMA AWATA	: Computer System Detailed	: Oct. 10, 1984
	: :	: Design	: Dec. 21, 1984
	: + TSUKASA NOMIYA	: System Analyst	: March 5-12,
	: :	: :	: 1985
	: + KOH SAKAGUCHI	: Computer System	: April 22, 1985-
	: :	: :	: May 22, 1985
1985	: ** MASASHI FUJITA	: Coordinator	: May 19, 1985-
	: :	: :	: May 18, 1987
	: + ISAMU MOHRI	: ETV Consultant	: Nov. 21, 1985-
	: :	: :	: Dec. 20, 1985
1986	: ** TEIZO SUGIYAMA	: Chief Advisor	: May, 1986
	: :	: :	: 1987

LEGEND:

- X LONG TERM EXPERT
- ** REPLACEMENT FOR LONG TERM EXPERT
- + SHORT TERM EXPERT

PROGRAM II EXPERTS

YEAR	NAME	AREA OF SPECIALIZATION	PERIOD OF ASSIGNMENT
1983	: X TAKUMI TAKEUCHI	: Team Leader-Oyster	: April 9, 1983
		: Culture Expert	: July 8, 1986
	: X HIROSHI AYABE	: Seafarming Expert	: April 1, 1983
			: Sept. 1987
1984	: + SATOSHI UMEZAWA	: Water Analysis	: Feb. 28, 1985-
			: Mar. 23, 1985
	: + YASUJI SAKAI	: Soil Analysis	: Mar. 28, 1985
			: April 23, 1985
	: + SHUNJI MATSUI	: Oyster Depuration	: Sept. 18, 1985-
			: Oct. 23, 1985
1985	: + YASUJI SAKAI	: Bottom Condition Analyst	: Feb. 11, 1986-
			: March 4, 1986
	: + SATOSHI UMEZAWA	: Water Analyst	: Feb. 11, 1986-
			: March 4, 1986
1985	: X KAZUHIRO KUROSAWA	: Oyster Cultivation	: March 20, 1986
			: Sept. 1987
1986	: XX YOSHIMITSU ARAKAWA	: Team Leader	: June 30, 1986
			: Sept. 1987

PROGRAM III EXPERTS

YEAR	NAME	AREA OF SPECIALIZATION	PERIOD OF ASSIGNMENT
1983	X KEIICHI TANAKA	Team Leader-Construction	June 1983
		Expert	May 1986
	X YOKITO KATORI	Asst. Team Leader	June 1983
		Construction Expert	Nov. 1985
1984	X GOUJI TOMOMORI	Architecture Expert	January 1984-
			January 1986
	X TETSURO HAYASHI	Electricity Expert	Sept. 1984-
			Sept. 1987
	X YASUNORI TAKAHASHI	Welding Expert	Sept. 1984-
			Sept. 1987
1985	+ MASAAKI YOSHIKA	Electricity	June 3, 1985-
			July 3, 1985
	+ TAKASHI MIMURA	Heavy Equipment Operation	June 28, 1985-
			July 30, 1985
	+ KATSU HARU OKAMOTO	Heavy Equipment	June 17, 1985-
		Maintenance	July 27, 1985
	+ NORIYOSHI MORABE	Welding Expert	July 1, 1985-
			Aug. 10, 1985
	+ SHUJI TAKAHATA	Pipefitting	Oct. 16, 1985
			Dec. 14, 1985
	+ SHINJI MATSUMOTO	Block Building	Oct. 31, 1985-
			Nov. 17, 1985
	+ ISAO NAKUI	Reinforced Concrete	Nov. 12-15,
			1985
	+ TAKASHI NARIMOTO	Steel Frame	Nov. 26, 1985-
		Dec. 14, 1985	
+ MATSUI GASHA	Steel Frame	Nov. 26, 1985-	
		Dec. 14, 1985	
X SHIGEYOSHI SAWADA	Asst. Team Leader-	Nov. 4, 1985-	
	Heavy Equipment	Sept. 1987	
	Maintenance		
X AKIRA TOTSUKA	Building Construction	January 1986-	
		September 1987	

PROGRAM III EXPERTS

YEAR	NAME	AREA OF SPECIALIZATION	PERIOD OF ASSIGNMENT
1986	+ TAKAYUKI MIMURA	Heavy Equipment Maintenance	April 23, 1986- May, 1986
	+ SHINJI MATSUMOTO	Blockbuilding	April 22, 1986- May 2, 1986
	+ TAKASHI NARIMOTO	Erection	May 12, 1986- June 2, 1986
	+ TSUNSHIRO NAITO	Erection	May 12, 1986- June 2, 1986
	+ SHINJI SATO	Piping	Aug. 10, 1986- Sept. 23, 1986
	+ TAKASHI MIMURA	Heavy Equipment Operation	Aug. 28, 1986 Sept. 27, 1986
	XX NORIAKI KUMAI	Construction Machinery	Sept. 7, 1986 Sept. 1987

PROGRAM IV EXPERTS

YEAR	NAME	AREA OF SPECIALIZATION	PERIOD OF ASSIGNMENT
1983	* SAKAZO TAKEUCHI	Team Leader - Rattan Technology Expert	March 1983 - March 1984
	* YUZO YAGISAWA	Bamboo Technology Expert	March 1983 - Sept. 8, 1987
	* ISAO FURUKAWA	Woodworking Expert	October 1983 - September 1987
	+ SHINICHI HORIE	Rattan Technology Expert	October - December 1984
1984	+ SHUJI TAKITA	Woodworking Expert	October - December 1984
	+ SHIGEKI MATSUMOTO	Upholstery Expert	Jan. 15, 1986 - March 15, 1986
1985	XXKENRO KAGAWA	Team Leader	March 25, 1985 - Sept. 1987

SUMMARY OF TRAINEES ACCEPTED

PROGRAM/YEAR	I	II	III	IV	TOTAL
1982	1	1	1	1	4
1983	1	-	8	7	16
1984	11	3	7	4	25
1985	5	5	5	3	18
1986	2	1		2	10
	20	10	26	17	73

SUMMARY OF PHRDC TRAINEES

PROGRAM 1

YEAR	NAME	AREA OF TRAINING	DURATION
1982	Grace de Vera	Observation Tour	March 1983
	Enrique Macadangdang	- do -	- do -
	Santi Dapul	- do -	- do -
	Ernesto Payoyo	- do -	- do -
1983 (1)	1. MA. CORAZON BARRIOS	Teacher Training Program on Japanese Language and Culture; and Human Resources Orientation	2/23/84 7/23/84
1984 (11)	2. EDGARDO S. DAJAD	Data Base Systems and Design	5/27/84 7/24/84
	3. JIMMY S. SON	ACOS-4 and Advanced Systems Introduction and Management	5/23/84 7/24/84
	4. LORENZO JAMIE RIVERA	ACOS-4 and Advanced Systems	5/23/84 7/24/84
	5. GERARDO MANANSALA	Systems 350-Hardware Maintenance	8/8/84 11/28/84
	6. ALBERT MESCALLADO	Video Program Production Techniques	8/16/84 9/19/84
	7. REBECCA LIBAO	Video Program Production Techniques	8/16/84 9/19/84
	8. HECTOR LOPEZ	Video Program Production Techniques	8/16/84 9/19/84
	9. NICOLAS TAYAG	Video Program Production Techniques	8/16/84 9/19/84
	10. ERNESTO VIZCONDE	Broadcast and Communications Management and Program Production Techniques	8/16/84 9/19/84
	11. LITO TOLENTINO	Video Equipment Maintenance Techniques	8/16/84 10/23/84
	12. RESTITUTO VICTOR	Video Equipment Maintenance Techniques	8/16/84 10/23/84

YEAR	NAME	AREA OF TRAINING	DURATION
1985 (6)	13. SUSANA PABLO	Computer Graphics and Plotter	10/10/85 11/30/85
	14. EMILY AMORES	Computer Instruction Training	7/18/85 12/16/85
	15. DAISY ANN LIBROJO	Data Base Programming and Design	10/10/85 11/30/85
	16. FELIMON DELIZO	NEC Hardware 350 and PC8801 Hardware Maintenance	7/5/85 9/27/85
	17. ROSELLA SOTELO	Educational Television	9/19/85 11/13/85
	18. RAPHAEL SAN GABRIEL	Computer Processing Information Personnel	14 April '85 Oct. '85
1986	19. ULYSSES O. CASIANO	Television Engineering	2 Sept. 1986
Total (19)			5 Nov. 1986

PROGRAM 11

YEAR	NAME	AREA OF TRAINING	DURATION
1983		- N O N E -	
1984	1. ROBERTO GARCIA	Environmental Survey	7/12/84 10/12/84
(3)	2. BENJAMIN FONTANILLA	Oyster Farming and Management	7/12/84 11/12/84
	3. ELIZABETH PALPALLATOC	Microbiology and Oyster Depuration and Quality Control	1/6/as85 2/16/85
1985	4. SUSAN CAOILE	Microbiology/Processing	09/12/85 12/19/85
	5. CESAR LUNA	Environmental Survey	07/17/85 10/03/85
	6. CONRADO DIZON	Oyster Cultivation	07/17/85 10/03/85
	7. JOSE GAMBOA III	Oyster Depuration	09/12/85 12/19/85
	8. JULIO GAFFUD	Oyster Cultivation	10/30/85 12/19/85
1986	9. SUSAN T. BARBOSA	Oyster Cultivation	8/10/86 10/3/86
Total (9)			

PROGRAM III

YEAR	NAME	AREA OF TRAINING	DURATION
1983 (8)	1. ARTHUR TADIAMAN	Heavy Equipment Operations	5/5/83 11/4/83
	2. JESSIE AGABE	Heavy Equipment Maintenance	5/5/83 11/4/83
	3. GONZALO DELFINADO	Steelworking (Erection)	1/12/84 7/15/84
	4. FRANCISCO ALGARATE	Steelworking (Rebarwork)	1/27/84 7/25/84
	5. REYNALDO REYES	Industrial Electricity	-do-
	6. FLORENCIO SISON	- do -	-do-
	7. DANILO NAVARRO	Welding	-do-
	8. GODOFREDO SANTOS	- do -	-do-
1984 (7)	9. RUDOLFO MENGUITA	Heavy Equipment Operations	5/5/84 11/8/84
	10. RICARDO FERNANDEZ	- do -	-do-
	11. ERNESTO ARCENAS	Pipefitting/Plumbing	8/17/84 2/16/85
	12. ROSSANO ENTEDEZ	- do -	1/17/84 7/17/85
	13. MARCELO ABAD	Masonry	1/17/85 7/17/85
	14. HONORIA PADUA	Steelworking (Erection)	10/19/84 04/20/85
	15. ERNESTITO DOMINGO	Masonry	1/17/85 7/17/85
1985	16. BENIGNO JIMENEZ	Industrial Electricity	09/19/85 01/6/85
	17. CRESCENCIO MARAMAG JR.	Heavy Equipment Maintenance	05/11/85 11/4/85
	18. ANGELITO ZULUETA	Welding	6/17/85 12/19/85

YEAR	NAME	AREA OF TRAINING	DURATION
	19. RENATO FAIGAO	Heavy Equipment Maintenance	-do-
	20. MARBEN PORRAS	Steelworking (Rebar)	6/17/85 12/19/85
1986	21. VIRGILIO SERRANO	Heavy Equipment Operator	6/12/86 11/7/86
	22. FRANKLIN BUNOAN	- do -	-do-
	23. JEFFREY ZAMORA	Plumbing/Pipefitting	6/24/86 12/28/86
	24. MARLON QUIZON	- do -	-do-
	25. RIZALDY MENDOZA	Industrial Electricity	7/8/86 12/21/86

Total (25)

PROGRAM IV

YEAR	NAME	AREA OF TRAINING	DURATION
1983	1. ALFONSO ATIENZA	Supervisory Training Course on Bamboocraft and Rattancraft	12/1/83 2/18/84
(7)	2. ANA MACAPANAS	Individual Training Course on Bamboocraft	11/25/83 5/15/84
	3. ROGELIO FALCESO	Individual Training Course on Rattancraft	11/15/83 5/8/84
	4. PEDRO EUGENIO	Individual Training Course on Woodworking	3/3/84 9/26/84
	5. ONOFRE VICENCIO	Maintenance and Workshop Safety Engineering of Bamboo and Rattan Machineries	3/15/84 5/2/84
	6. TEODORO RUIZ	Maintenance and Workshop Safety Engineering of Woodworking Machineries	-do-
	7. JORGE MUNDO	Supervisory Technical Training on Woodworking	-do-
1984	8. PABLO DE LEONA	Machine Maintenance	12/6/84 6/6/85
(4)	9. FERNANDO CODILLA	Woodworking	-do-
	10. EFREN BALAONG	Rattamcraft	-do-
	11. FRANCISCO FRANCISCO	Bamboocraft	-do-
1985	12. FRANCISCO DELA CRUZA	Woodcraft	8/12/85 12/6/85
	13. LAGRIMAS MARASIGAN	Bamboocraft	8/5/85 12/6/85
	14. ERIC BICAR	Rattancraft	3/24/86 4/29/86
1986	15. ANGELINA SOTTO	Industrial Design	
	16. DELFIN E. ESTREMER	Tooling Production Facility Practical Engineering	9/25/86 3/27/87

2

PROGRAM 1

NAME OF COUNTERPART : AREA OF : OBJECTIVE OF TRAINING : ADULT. IN : BENEFITS : LOCAL :
 TRAINEE : SPECIALIZATION : : : FROM TRAINING : STAFF

1. Edgardo Dajao Date Base System and Design To acquire the knowledge on the mechanics of the Computer System 6 weeks Acquisition of knowledge on the mechanics of NEC System

2. Lorenzo Jaime Rivera ACOS-4 Hardware and System Analysis and Design To gain knowledge on the mechanics and functions of the NEC System ACOS-4 software packages 7 weeks Acquisition of knowledge on the mechanics and functions of the System w ACOS-4

3. Jimmy Son ACOS-4 Advanced System Introduction and Management - CO - - CO - - 6 weeks - CO -

4. Gerardo Hinansala NEC System 358 Hardware Maintenance To be able to design the measure of operations and maintenance management techniques for NEC System 358 15 weeks Acquisition of knowledge on the hardware maintenance of NEC

5. Susana Pablo Computer Graphics and Plotter To gain proficiency in the use of computer graphics and plotters 5 weeks Acquisition of skills in the use of graphics, plotters and software dev't

6. Emily Amores Computer Instruction Training To gain mastery in the preparation of instructional materials for computer instruction 2 weeks Acquisition of knowledge on materials dev't for computer instruction

7. Daisy Ann Librojo Data Base Programming and Design To gain knowledge on Data Base Programming and Design 6 weeks Acquisition of Data Base Design Skills

8. Felimon Delizo NEC 355 & PC8851 Hardware Maintenance To gain knowledge on NEC 355 and PC8851 operations and maintenance 12 weeks Acquisition of techniques on NEC 355 and PC8851 operation maintenance

9. Rafael San Gabriel Computer Processing and Documentation Personnel To acquire training in Computer Aided Instruction 24 weeks Acquisition of skills in the use of computer software

EXPERIMENTAL ASSIGNMENT : TRAINING CONDUCTED : LEVEL OF : EQUIPMENT/ : LOCAL :
 MASTER TRAINING : SUBJECT TAUGHT/ : TRAINEE : TRAINING : COMPETENCE : TRAINED :
 : SOFTWARE DEVELOPED : : OPERATE : : IN AREA

Contractual Managing Director - same area - Very Good NEC 358 Very Good 17

Contractual Section Head, Computer Division - same area - Very Good NEC 358 Very Good 17

Resigned as Section Head, System Development Division of 31 March 1986 - same area - Very Good NEC 358 Very Good 17

Contractual Section Head - same area - Very Good NEC 358 Very Good 17

Contractual System Designer - same area - Very Good NEC 358 Very Good 12

Resigned as Curriculum Writer of 31 March 1986 - same area - Very Good NEC 358 Very Good 5

Resigned as Application Programmer of 16 July 1986 - same area - Very Good NEC 358 Very Good 12

Resigned as Computer Operator of 31 July 1982 - same area - Very Good NEC 358 Very Good 2

Contractual System Designer - same area - Very Good NEC 358 Very Good Still on Training

NAME OF COUNTERPART TRAINEE	AREA OF SPECIALIZATION	OBJECTIVE OF TRAINING	DURATION	BENEFITS DERIVED FROM TRAINING	EMPLOYMENT STATUS	ASSIGNMENT AFTER TRAINING	TRAINING CONDUCTED	LEVEL OF EXPERTISE DEVELOPED	EQUIPMENT/ MACHINERY OPERATE	LOCAL STAFF TRAINED
18. Ernesto Vizconde	Production Management	To enhance skills/ knowledge in TV Broadcast Management and video production	6 weeks	Exposure to TV production - Japanese method, approaches and techniques	Resigned as Managing Director of November	Video Systems and AU principles	Very Good	All Video AU Equipment	Very Good	12
11. Hector Lopez	Video Production Management	To enhance skills/ knowledge in video production with emphasis on ETV program production	- do -	- do -	Contractual	Production Manager and later DIC, PMO	Very Good	All Video Equipment and Audio-visual Equipment	Very Good	17
12. Nicolas Taysag	Scriptwriting	To enhance skills/ knowledge in video production with emphasis on ETV scriptwriting	- do -	- do -	Contractual	Creative Director, Chief Scriptwriter	Very Good	Video Cameras	Good	12
13. Albert Mesallada	Studio Direction	To enhance camera production skills	- do -	- do -	On Leave as of May 1986	Production Asst. and later as Studio Director	Very Good	All Video Equipment	Very Good	15
14. Rebecca Libao	Educational Media Technology	To enhance ETV production skills	- do -	- do -	Resigned as of Oct. 1985	Production Asst. and later as Curriculum Writer	Very Good	Video Cameras	Good	6
15. Jose Tolentino	Video Maintenance Engineering	To enhance skills/ techniques in video equipment maintenance	- do -	- do -	Contractual	Maintenance Engr. later as Video Maintenance Engr.	Very Good	All Video Equipment	Very Good	10
16. Restituto Victor	Video Maintenance Engineering	- do -	- do -	- do -	Resigned as of Oct. 1985	Video Engineer	Very Good	All Video and Equipment	Very Good	6
17. Rosella Sotelo Toledo	ETV Program Production and Basic Animation	To acquire knowledge/ skills in ETV Program Production in NHK Broadcasting Corp.	- do -	Exposure to video application and production techniques and basic animation	Contractual	Production Asst. and Administration Officer	Very Good	Video Equipment	Good	18
18. Maria Carazon Barrios-Bunag	Teacher Program on Language and Culture; Human Resource Orientation	To develop resource person in Human Resource Orientation based on Japanese experiences	6 mos	Exposure to various aspects of Japanese Culture and Thought for Orientation Courses to identify clientele	Contractual	Head, Technical Services Division	Very Good	Audio-Visual Equipment/ Language Laboratory Equipment	Good	

19. Ulysses Casiano Color TV Engineering On Training

NAME OF COURSE/TRAINER	AREA OF SPECIALIZATION	OBJECTIVE OF TRAINING	DURATION	BENEFITS DERIVED FROM TRAINING	EMPLOYMENT STATUS	ASSIGNMENT AFTER TRAINING	TRAINING CONDUCTED	LEVEL OF TRAINING	EQUIPMENT/ MACHINERY OPERATED	STAFF TRAINED IN AREA
Jan Casile	Microbiology & Processing	Improve skills in Microbiology, Depuration & Processing of Oysters; Introduce Japanese Method of Cultivating Oysters	3 months	Improved skills; increased knowledge in areas of trng., Establish contact with Japanese scientists	Contractual	Assistant Microbiologist	Research and Development: Microbial Testing and Analysis Oyster Culture and Seafarming	Very Good	All Microbial Equipment All Mariculture Production and Monitoring Facilities and Equipment	3
Conrado Dixon	Oyster Cultivation	To gain Japanese technology on Oyster Cultivation	2.5 mos.	Application of appropriate technology in oyster culture to local conditions	Contractual	Mariculturist	Research and Development: Oyster Culture and Seafarming	Good	All Mariculture Monitoring Facilities and Equipment	2
Jose Gamboa III	Oyster Depuration and Processing	To acquire Japanese technology on Oyster Depuration and Processing	2.5 mos.	Application of appropriate technology to local conditions	Contractual	Fish Processing Technician	Research and Development: Depuration and Processing	Very Good	All operational SROC processing Equipment and Micro Laboratory Equipment	2
Julio Gafud	Oyster Cultivation	To acquire Japanese technology on Oyster Cultivation	2 months	Application of modified technology suited to local conditions	Contractual	Mariculturist	Research and Development: Oyster Culture and Seafarming	Very Good	All Mariculture Production and Monitoring Facilities and Equipment	2

PROGRAM II

NAME OF COUNTERPART TRAINEE	AREA OF OBJECTIVE OF TRAINING	DURATION	BENEFITS DERIVED FROM TRAINING	EMPLOYMENT STATUS	ASSIGNMENT	SUBJECT/TRNG. TAUGHT/CONDUCTED/SOFT-WARE DEV.	LEVEL OF EXPERTISE	EQUIPMENT/ MACHINERY	LEVEL OF EXPERTISE	LOCAL STAFF TRAINED IN THE AREA BY TRAINEE
Benjamin Fontanilla	1) Acquire specific technical expertise on Japanese oyster farming & modify it to local situation. 2) Proper exposure to oyster culture mgmt. 3) Gain supervisory capability on oyster farming	4 months (07-12-84 to 11-12-84)	Responsible for modifying the learned tech in oyster farming that is adaptable to this setting. Total mgmt. & supervision of activities of program II.	Resigned as of March 31, 1986	Program Manager, Program II	R & D; Management	Good/ Fair	Host environmental equipment	Good	Not applicable
Roberto Garcia	1) Improve skills in coastal oceanographic skills. 2) Develops as a cadre of oyster expert in the field of microbiology, processing/depuration. 3) Standardize the quality of oyster grown for production.	3 months (07-12-84 to 10-12-84)	Contributed in the sampling & interpretation of seawater analysis/data needed for site selection	Resigned as of March 1986	Same position as before training	R & D Ecological & Environmental Survey	Good	All Environmental monitoring equipment	Very Good	4 staff
Elizabeth Palpal-laucoclog	1) Develops as a cadre of oyster expert in the field of microbiology, processing/depuration. 2) Standardize the quality of oyster grown for production.	46 days (01-06-85 to 02-16-85)	Responsible in modifying & adapting technical skills acquired for Japanese in processing and production of oyster for consumption & for possible export ventures in the future.	Resigned as of March 1986	Same position as before training	R & D; Depuration and Microbiology analysis	Very Good	All Micro laboratory equipment	Good	4 staff
Cesar Luna	1) Improve skills in environmental survey	(07-19-85 to 03-10-85)	Improved skills wider outlook	Contractual	Same as before training	R & D Ecological & Environmental Survey	Very Good	all environmental testing & monitoring equipment	Very Good	2 staff

PRDOWM III

NAME OF CONTRIBUTOR/ TRAINEE	AREA OF SPECIALIZATION	OBJECTIVE OF TRAINING	DURATION	BENEFITS DERIVED FROM TRAINING	EMPLOYMENT STATUS	ASSIGNMENT AFTER TRAINING	SUBJECT/TRAINING TAUGHT/CONDUCTED/ SOFTWARE DEVELOPED	LEVEL OF EXPERTISE/TRAINEE CAP.	EQUIPMENT OF TRAINEE	LEVEL OF EXPERTISE/TRAINEE CAP.	LOCAL STAFF TRAINED IN THE AREA
TADIMAN, ARTUARO	HEAVY EQUIPMENT MAINTENANCE	Skills upgrading in construction technology	6 months	Improved delivery teaching techniques in construction technology	Contractual	Teacher/Trainer	Heavy Equipment Maintenance Training Course	Very Good: All Kinds of Heavy Equipment	All Kinds of Heavy Equipment	Good	Training Assistant
ACABE, JESUS	HEAVY EQUIPMENT MAINTENANCE		do	do	do	do	do	Very Good:			
INARRD, DARILLO S.	WELDING		do	do	do	do	Welding Teacher Training Course	Very Good: All Kinds of Heavy Equipment	All Kinds of Heavy Equipment	Very Good	Training Assistant
SANTOS, GODOFREDO	WELDING		do	do	do	do	Welding Teacher Training Course	Very Good: All Kinds of Heavy Equipment	All Kinds of Heavy Equipment	Very Good	Training Assistant
DELFINADO, GONZALO T.	ERECTION		do	do	do	do	Steel Reinforced Concrete Teacher Training Course	Very Good: Tower and lifted cranes	Tower and lifted cranes	Very Good	Training Assistant
SISON, FLORENCIO G.	INDUSTRIAL ELECTRICITY		do	do	do	do	Industrial Electricity Training Course	Very Good:			
FERNANDEZ, RICARDO C.	HEAVY EQUIPMENT OPERATION		do	do	do	do	Heavy Equipment Operation Teacher Training Course	Very Good: All Kinds of Heavy Equipment	All Kinds of Heavy Equipment	Very Good	Training Assistant
ALCARATE, FRANCISCO S.	REBAR		do	do	do	do	Steel Reinforced Concrete Teacher Training Course	Very Good: All Kinds of Heavy Equipment	All Kinds of Heavy Equipment	Very Good	Training Assistant
MENGUITA, RODOLFO C.	HEAVY EQUIPMENT OPERATION		do	do	do	do	Heavy Equipment Operation Teacher Training Course	Very Good: All Kinds of Heavy Equipment	All Kinds of Heavy Equipment	Very Good	Training Assistant
PADUA, HENRIQUE M.	ERECTION		do	do	do	do	Steel Reinforced Concrete Teacher Training Course	Very Good: Tower cranes	Tower cranes	Good	Training Asst.
ARCEBAS, ERNESTO V.	PIPEFITTING/PLUMBING		do	do	do	do	Plumbing/plumbing Teacher Training Course	Very Good:			Training Assistant

DIENEZ, ROSSNO	PIPEFITTING/ PLUMBING	- do -	- do -	- do -	- do -	- do -	- do -	Steel Reinforced Concrete Teacher	Very Good	
								Training Course		
								Attitudinal Dev. Course		
ABAO, MARCELO R.	MASONRY	- do -	- do -	- do -	- do -	- do -	- do -	Steel Reinforced Concrete Teacher	Very Good	
								Training Course		
								Attitudinal Dev- lopment Course		
DOMINGO, ERNESTO B.	MASONRY	- do -	- do -	- do -	- do -	- do -	- do -	Heavy Equipment Maintenance Teacher	Very Good	Very Good
								Training Course	of Heavy Equipment	Assistant
MARINAG, CRESCENCIO B.	HEAVY EQUIPMENT OPERATION	- do -	- do -	- do -	- do -	- do -	- do -	Heavy Equipment Maintenance Teacher	Very Good	Good
								Training Course	of heavy equipment	Assistant
FALCAO, REYNATO P.	HEAVY EQUIPMENT	- do -	- do -	- do -	- do -	- do -	- do -	Welding Teacher	Very Good	Very Good
								Training Course	of welding equipment	
ZULUETA, ANGELITO V.	WELDING	- do -	- do -	- do -	- do -	- do -	- do -	Steel Reinforced Concrete Teacher	Very Good	Very Good
								Training Course	of rebar equipt. & gas press- sure welding equipment	Assistant
POBRAS, BARBER G.	REBAR	- do -	- do -	- do -	- do -	- do -	- do -	Industrial Electrici- ty Teacher Train- ing Course	Very Good	
BEFIGO, JIMENEZ S.	INDUSTRIAL ELECTRICITY	- do -	- do -	- do -	- do -	- do -	- do -	Industrial Electrici- ty Teacher Train- ing Course	Very Good	Training Asst.
REYES, REYNALDO R.	INDUSTRIAL ELECTRICITY	- do -	- do -	- do -	- do -	- do -	- do -	Basic Household Electricity		

PP08PM1 IV

NAME OF CONTRIBUTOR:	AREA OF SPECIALIZATION:	OBJECTIVE OF TRAINING	DURATION	BENEFITS DERIVED FROM TRAINING	EMPLOYMENT STATUS	ASSIGNMENT AFTER TRAINING	SUBJECT/TAUGHT	LEVEL OF EQUIPMENT:	EXPERIENCE:	TRAINING TYPE	LOCAL STAFF:
:	:	:	:	:	:	:	:	:	:	:	:
:	:	:	:	:	:	:	:	:	:	:	:
JORGE E. NUERO	Woodworking Technology	For the Cottage and light industries to improve supervisory skills required for the effective operation of the program	March 15 to May 2, 1984	Improved Supervisory skills for personnel responsible for introducing acquired viable technology	Permanent	0-1-C Technical Services and Industrial Technology Division	SUBJECT TAUGHT 1. Hand Tools 2. Furniture Joinery 3. Power Tools 4. Woodworking Machine Operation 5. Materials preparation 6. Construction System 7. Finishing 8. Specialized Subjects TRAINING CONDUCTED 1. In-house for 13 wood personnel 2. Sept. 3/84 to March/85 3. Basic Wood Machine Operation 4. Course for 4 RCITC personnel Nov. 5/85-Jan. 30/85 5. Regional Basic Technical Training on Hood for 18 Regional personnel on June 8 to Aug. 30/85 6. Advanced Technical Training for 14 wood personnel on Nov. 11/85 to March 7/86 7. Short Term Training on Basic Stationary Hood Equipment for 4 private sector 8. Short Term Training on Furniture structure and	All Basic and special sized wood equipment installed in wood-working Buildings	VG	CAI OPERATE	13 RCITC wood personnel 14 RCITC II technicians 18 Regional technicians 14 LTC wood personnel (advanced) 16 private sector

TEODORO I. RUIZ	Maintenance of Woodworking Technology	To increase technical know-how on the utilization and maintenance of installed equipment	March 15 to May 2, 1984	Increased machinery utilization & maintenance Increased knowledge on safety measures	Permanent Chief of Manufacturing	Assembly Methods for 12 private personnel SOFTWARE DEVELOPED 11.33 Printed Manuals 12.10 Transparencies	VG VG VG VG	All Wood machine and other equipment	1. E 1. E 1. E 1. E	1. MACIDA Reg. Staff 2. Private Sector 3. 4 Region 1. MACIDA 1. Personnel 4. 13 CITC 1. Woodcraft Staff 5. out of school youth
PEDRO T. EUGENIO	Woodworking Technology	To gain proficiency in Japanese woodwork- ing techniques and in the operation of required machines.	March 3 to September 1985	Increased woodwork- ing skills required by trainers for the successful implementation of training program.	Permanent Chief of Woodworking Division	1. Wood processing 2. Wood Furniture & construction 3. Wood seasoning & preservation 4. Maintenance & Millwrighting 5. Upholstery 6. Finishing 7. Lamination	E E VG VG E VG VG	All wood mach. installed at Woodcraft & other equipment	1. E 1. E 1. VG 1. VG 1. E 1. VG 1. VG	1. MACIDA Reg. Staff 2. Private Sector 3. 4 Region 1. MACIDA 1. Personnel 4. 13 CITC 1. Woodcraft Staff 5. out of school youth
FERRER R. CODILLA	Woodworking Technology	To increase technical know-how on the utilization and maintenance of installed equipment	March 8 to Dec. 6, 1985	Increased woodwork- ing skills required by trainers for the successful implementation of training programs.	Permanent Trainer (Woodworking Division)	1. Wood processing 2. Milling 3. Wood furniture & construction 4. Assembly 5. Maintenance and Millwrighting 6. Upholstery 7. Lamination 8. Adhesives 9. Wood Finishing 10. Wood Seasoning	VG VG VG VG VG VG VG VG VG VG	All wood machines installed at woodcraft & other equipment	1. VG 1. VG 1. VG 1. VG 1. VG 1. VG 1. VG 1. VG 1. VG 1. VG	1. MACIDA Reg. Staff 1. 4 person- nels 2. Private Sector 1. 4 Reg. II 1. MACIDA per- sonnels 2. Private Sector
PABLO DE LEGA	Woodworking Technology	To increase technical know-how on the utilization and maintenance of installed equipment	Dec. 4, 1984 to March 5, 1985	Increased woodwork- ing skills required by trainers for the successful implementation of training programs.	Permanent Chief of Woodworking Division	1. Wood machine 2. Maintenance	E VG	All wood machines installed	1. E 1. VG	1. 4 Reg. II 1. Personnel 2. Private Sector

ROGELIO F. FALCENO	- do -	To increase level of efficiency in the utilization of rattlecraft machineries	Nov. 25, 1983: Gained proficiency in the utilization of acquired methodologies and techniques.	Permanent	Trainer(Rattlecraft Division)	a. Basketry/split machine & furniture construction; b. Rattan materials processing; c. Rattan classification and grading; e. Visual aid and technical material.	a. VG; b. VG	1. bending machine; 2. framing machine; 3. sub-assembly; 4. assembly; 5. binding & decoration; 10. finishing system; 1. surface preparation; 2. top coat application; 3. final coating; A-2-Basketry Weaving; 2a. rattan derivatives processing; 2b-rattan derivatives weaving; 10- Software development; a- VTR teaching material; b-visual & teaching aids	working machine; craft staff
ERIC O. BALAGUE	- do -	To increase level of efficiency in the utilization of rattlecraft machineries	Dec. 16, 1984: Gained proficiency in the utilization of acquired methodologies and techniques.	Permanent	Trainer (Rattlecraft Division)	a. General rattan furniture construction; b. rattan materials processing and its derivatives; c. Core & wicker furniture making; d. Basketry; e. Crafting & sizing.	a. E; b. VG; c. E; d. VG; e. VG	a. All rattan processing machine & equipment; b. rattan materials and some derivatives; c. Core & wicker furniture making; d. Basketry; e. Crafting & sizing	a. NACIDA Reg. 1. Office Staff; 2. Private Sector; 3. School youth; 4. Two RCITC; 5. Reg. X personnel; 6. NACIDA Reg. X; 7. Private Sector; 8. Out of school youth
ERIC BICAR	- do -	To increase level of efficiency in the utilization of rattlecraft machineries	(awaiting schedule) : Gained proficiency in the utilization of acquired methodologies and techniques.	Permanent	Trainer (Rattlecraft Division)	a. General rattan furniture construction; b. rattan materials processing and its derivatives; c. Core & wicker furniture making; d. Basketry; e. Crafting & sizing.	a. E; b. VG; c. E; d. VG; e. VG	a. All basic rattan processing machine & equipment; b. rattan materials and some derivatives; c. Core & wicker furniture making; d. Basketry; e. Crafting & sizing	a. All basic rattan processing machine & equipment; b. rattan materials and some derivatives; c. Core & wicker furniture making; d. Basketry; e. Crafting & sizing

3

PROGRAM: Program I- Multi Media Department

SOFTWARE DEVELOPED/ AVAILABLE	NO.	* USER	ASSIGNED PERSONNEL TO DEVELOP SOFTWARE	STATUS	SOFTWARE FOR DEVELOPMENT	SUPPORT REQUIREMENTS FROM PROGRAM I
1. <u>PRINT HANDBOOKS</u> 1. Basic Video Camera Operation and Maintenance	30	teacher/ trainer	Scriptwriter/Art Director	Finished	1. <u>PRINT HANDBOOKS</u> 1.1 Scriptwriting 1.2 Video Direction 1.3 Lighting/sound	
2. Basic VTR Operation & Maintenance	30	teacher/ trainer	"	Finished	2. Video Module 2.1 AV Production Techniques	
3. Basic Print Production Techniques		teacher/ trainer	"	Camera ready for Printing	2.2 Directing for Video 2.3 Basic Lighting/ Sound techniques	
4. Basic AV Production Techniques		teacher/ trainer	"	"	3. <u>PROGRAM BASED TRAINING MATERIALS</u>	
5. Basic Video Production Techniques		teacher/ trainer	"	"	3.1 Computer introduction 3.2 Oyster Farming 3.3 Erection Process 3.4 Pipefitting 3.5 Video of Bamboo	
2. <u>VIDEO MODULES</u>						
1. Basic Video Camera Operation & Mainte-	1 master	"	Production Manager/ Production Assistant	Prototype Finished		
2. Basic VCR Operation & Maintenance	1 master	"	"	Prototype Finished		
3. The World of Print Communications	1 master	"	"	Prototype Finished		
4. The Making of a Video Program	1 master	"	"	"		
5. CHP/Slide Projection Operation	1 master	"	"	"		

* TEACHER TRAINER; REGIONAL TRAINERS, PRIVATE COMPANIES, VOCATIONAL SCHOOLS, RESEARCHERS, ETC.

SOFTWARE INVESTMENT/ AVAILABILITY	USER	ASSIGNED PERSONNEL TO DEVELOP SOFTWARE	STATUS	SOFTWARE FOR DEVELOPMENT	SUPTIVE REQUIREMENTS FROM PROGRAM 1
1. Skills Inventory System	TSD-Center	JCSO	Operational		
2. Personnel Information System	Center-Admin	- do -	- do -		
3. Library Information System	Center -	- do -	Pending du to vacancy of the Librarian position		
4. Payroll System	Admin-Finance	- do -	Operational		
5. Guest Filing System	OSG	- co -	Operational		
6. JMO System	Finance	- do -	Not Operational		
7. Student Registration	UL	- do -	Terminated		
8. Computer Awareness Course	PIII Private/ Public School Officials, Teachers, Gov't Exec.	- do -	Modified by PIII 2nd running this September 1986		
9. Software Development	For would-be programmers esp. in the government sectors		Still awaiting availability of trainees who have passed the Computer awareness course. Maybe conducted this October; sem. break		

* TEACHER TRAINOR: REGIONAL TRAINERS, PRIVATE COMPANIES, VOCATIONAL SCHOOLS, RESEARCHERS, ETC.

SOFTWARE DEVELOPER/ AVAILABLE	NO.	*USER	ASSIGNED PERSONNEL TO DEVELOP SOFTWARE	STATUS	SOFTWARE FOR DEVELOPMENT	SUPPORT REQUIREMENTS FROM PROGRAM 1
10. Word Processing		General		Tested		
11. Equipment Inventory		Center Admin/Finance		Operational		
12. Environmental Info. System		PII		Operational		

* TEACHER TRAINING: REGIONAL TRAINERS, PRIVATE COMPANIES, VOCATIONAL SCHOOLS, RESEARCHERS, ETC.

PROGRAM: I I I

SOFTWARE DEVELOPED/ AVAILABLE	NO.	*USER	ASSIGNED PERSONNEL TO DEVELOP SOFTWARE	STATUS	SOFTWARE FOR DEVELOPMENT	SUPPORT REQUIREMENTS FROM PROGRAM I
1. Learning Elements for Welding Technology	15	Trainees from Various Sector	Teacher-Trainers in Welding Area	Completed		Production of VTR tapes for Welding Processes
2. Beesler Films on Welding Technology	5	- do -	- do -	Completed		Production of VTR Tapes for HEM Methods & Procedures
3. Learning Elements for Heavy Equipment Maintenance	15	- do -	- do -	Completed		Production of VTR Tapes for HEM Methods & Procedures
4. Slides & Transparencies on Heavy Equipment Maint.	20	- do -	- do -	Completed		Production of VTR Tapes for HEM Methods & Procedures
5. Learning Elements for Heavy Equipment Operation	17	- do -	- do -	Completed		Production of VTR Tapes for HEM Methods & Procedures
6. Films on Safety About HEM & HEM	5	- do -	- do -	Completed		Production of VTR Tapes for HEM Methods & Procedures
7. Films on General Construction	3	- do -	- do -	Completed		Production of VTR Tapes for HEM Methods & Procedures
8. Films on Heavy Equipment	5	Trainees from Various Sector	- do -	Completed		Production of VTR Tapes for HEM Methods & Procedures
9. Slides on Heavy Equipment Operation	5	- do -	- do -	Completed		Production of VTR Tapes for HEM Methods & Procedures
10. Learning Elements for Industrial	6	- do -	Teacher-Trainers in Industrial Electricity	Completed		Production of VTR Tapes for IIE Methods & Procedures

* TEACHER-TRAINER REGIONAL TRAINEES, PRIVATE COMPANIES, VOCATIONAL SCHOOLS, RESEARCHERS, ETC.

PROGRAM: I I I

SOFTWARE DEVELOPED/ AVAILABLE	NO.	# USER	ASSIGNED PERSONNEL TO DEVELOP SOFTWARE	STATUS	SOFTWARE FOR DEVELOPMENT	SUPPORT REQUIREMENTS FROM PROGRAM I.
11. Learning Elements for Steel Reinforced Con- crete	9	Trainers in Various Sec- tor	Area: Teachers in In- dustrial Electricity Area	Completed		Production of VTR Tapes for SRC PMO cedures and Methods

* TEACHER TRAINOR, REGIONAL TRAINERS, PRIVATE COMPANIES, VOCATIONAL SCHOOLS, RESEARCHERS, ETC.

PROGRAM: PROGRAM IV

SOFTWARE DEVELOPED/AVAILABLE	NO.	USER	ASSIGNED PERSONNEL TO DEVELOP SOFTWARE	STATUS	SOFTWARE FOR DEVELOPMENT	SUPPORT REQUIREMENTS FROM PROGRAM IV
1. Woodworking Training Handouts	33	CITC Trainee Regional Private-Sector Trainees	Jorge E. Murodo Assisted by CITC Technical Information & Packaging Division Personnel (TIPD)	Generally completed needs improvement in printing and layouting.		more training materials in printed form
2. Transparencies for Woodworking	10	-do-	-do-	completed		
3. Film Slides for Woodworking Machine Operations	130	-do-	Program I MWD and CITC Wood personnel	completed		
4. Beta Tapes on Wood products, processing and equipment	5	-do-	Personnel of CITC Technical Information & Packaging Division (TIPD)	Materials for further improvement		- Editing, script writing and voicing - More on products, process & equipment - Briefer for PHDC Program IV
5. Bamboo Craft Training Handouts	20	-do-	Onofre T. Vicencio assisted by CITC TIPD personnel	Generally completed needs improvement in printing and layouting		more training materials in printed form
6. Transparencies for Bamboo Craft	19	-do-	-do-	completed		
7. Film Slides for Bamboo Craft	37	-do-	-do-	completed		
8. Beta Tapes on Bamboo Craft products, processing and equipment	2	-do-	Personnel of CITC TIPD with the assistance of Program I MWD	Materials for further improvement		Editing, script writing and voicing

TECHER TRAINER: REGIONAL TRAINERS, PRIVATE COMPANIES, VOCATIONAL SCHOOLS, RESEARCHERS, ETC.

PROGRAM: PROGRAM IV

(2)

SOFTWARE DEVELOPED/ AVAILABLE	NO.	USER	ASSIGNED PERSONNEL TO DEVELOP SOFTWARE	STATUS	SOFTWARE FOR DEVELOPMENT	SUPPORT REQUIREMENTS FROM PROGRAM I
9. Rattancraft Training Handouts	18	-do-	Alfonso S. Atienza assisted by CLTC TIPD personnel	generally completed needs improvement in layouting and printing		- more training materials to be printed for
10. Transparencies for Rattancraft	18	-do-	-do-	completed		
11. Film Slides for Rattancraft	36	-do-	-do-	completed		
12. Beta Tapes on Rattancraft products, processing and equipment	5	-do-	TIPD and NMD personnel	materials for further improvement		- Editing; script writing and voicing
13. Partial Materials on Bamboocraft Training for ASEAN-PHRDC Training		8 ASEAN and 10 Philippines participants	Program I NMD	on-going	- Printed Handouts - VTR with voice and music - Improvement of existing Manual	Packaging of all requirements in printed and AV forms

* TEACHER TRAINOR; REGIONAL TRAINERS; PRIVATE COMPANIES; VOCATIONAL SCHOOLS; RESEARCHERS, ETC.

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