付属 資料

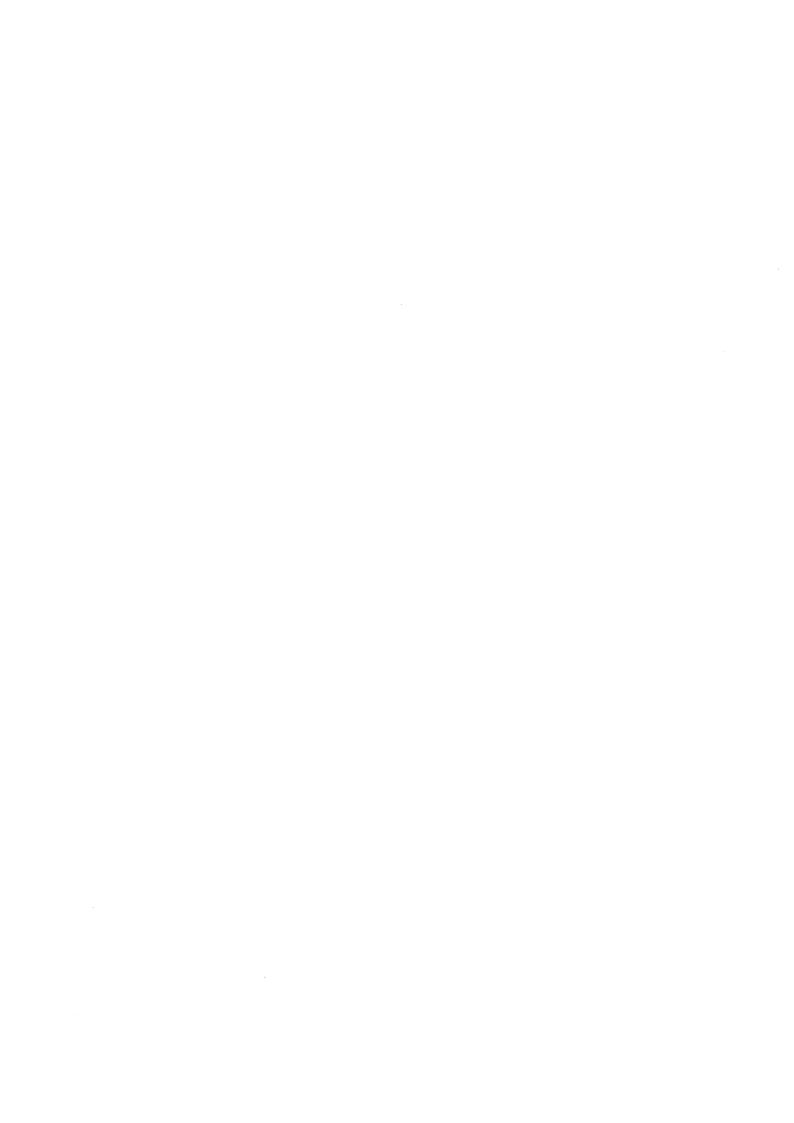
資料1 ミニッツ

資料 2 アドバイザリーコミッティー出席者一覧

資料3 サブサイト地図

資料4 テクノガイド・現地語版(一部)

資料 5 NFA 米の売値切り下げを伝える" MANILA BULLETIN "10 / 3 付記事



MINUTES OF UNDERSTANDING BETWEEN THE JAPANESE ADVISORY STUDY TEAM AND

THE AUTHORITIES CONCERNED OF THE GOVERNMENT OF THE REPUBLIC OF THE PHILIPPINES ON THE JAPANESE TECHNICAL COOPERATION FOR

THE BOHOL INTEGRATED AGRICULTURE PROMOTION PROJECT

The Japanese Advisory Study Team (hereinafter referred to as "the Team") organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA") and headed by Mr. Nobuyuki Samejima, visited the Republic of the Philippines from September 27 to October 8, 1999 for the purpose of interim evaluation of the Project Type Technical Cooperation for the Bohol Integrated Agriculture Promotion Project (hereinafter referred to as "the Project") as well as discussing the major issues related to the implementation of the Project.

During its stay in the Republic of the Philippines, the Team carried out a field visit, exchanged views and held a series of discussion with the Philippine authorities concerned in respect of the desirable measures to be taken by both Governments for the successful implementation of the Project.

As a result of the discussions, the Team and the Philippine authorities concerned agreed to recommend to their respective Governments the matters referred to in the interim evaluation report attached hereto.

Manila, October 7, 1999

Nobuyuki SAMEJIMA

Leader

Japanese Advisory Team

Japan International Cooperation Agency

Doming F. PANGANIBAN

Undersecretary \

Department of Agriculture

The Republic of the Philippines

THE ATTACHED DOCUMENT

THE INTERIM EVALUATION REPORT OF THE JAPANESE ADVISORY STUDY TEAM FOR THE BOHOLINTEGRATED AGRICULTURE PROMOTION PROJECT

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1. INTRODUCTION

1-1 BACKGROUND

The Project started on November 11, 1996 for a five-year term according to the Record of Discussion (hereinafter referred to as "the R/D") signed on October 16, 1996. The Japanese Consultation Team was dispatched from November 18 to 28, 1997 to formulate the detailed Tentative Schedule of Implementation (hereinafter referred to as "the TSI"). The Team consisted of the members listed in ANNEX 1 was assigned to conduct the interim evaluation.

1-2 OBJECTIVES OF THE INTERIM EVALUATION

The intermediate evaluation is performed halfway through the project cycle to correct the schedule and to reflect the results of the evaluation into the ongoing stage of the Project. It is conducted to evaluate whether the Project is progressing satisfactorily or not, and to evaluate measures taken or to be taken against the changes in external conditions. In the course of the evaluation, the Project Design Matrix (hereinafter referred to as "the PDM") and the detailed TSI are reviewed. Based on the observation and study on the implementation of the Project, measures will be forwarded to both governments.

1-3 EVALUATION METHOD

This evaluation was conducted by the Team in accordance with the R/D, the TSI and the PDM through report analyses, field visits, interviews and discussions with the personnel involved in the Project based on "Five Basic evaluation Components", that is, efficiency, effectiveness, relevance, impact, and sustainability.

The major evaluation components are efficiency, effectiveness, and relevance. Efficiency examines whether the extent of assistance was adequate and timely, or not. Effectiveness examines the achievement level of the outputs and project purpose. Relevance examines the adequacy and consistency of the project identification, formulation and implement in the given conditions. In addition, impacts and sustainability of the Project are considered to examine the influence of the Project and for further development.

2. PROGRESS OF THE PROJECT

2-1 ACCOMPLISHMENT IN TERMS OF INPUTS

2-1-1 JAPANESE INPUTS

Dispatch of Experts

A total of six long term experts were dispatched in accordance with the R/D and the TSI, except that an expert on agricultural mechanization was dispatched with a delay of 5 months, and a succeeding expert on farm management was assigned with a delay of 6 months. Nine short-term experts had been dispatched as scheduled. A list of the dispatched Japanese experts is attached as ANNEX 2.

Training of Philippine Personnel in Japan

Ten counterparts have visited Japan to participate in technical training. All the training programs have been efficiently conducted. The list of trained personnel is given in ANNEX 3.

Provision of Machinery and Equipment

Major Machinery and Equipment were provided in order to effectively implement the Project activities as shown in ANNEX 4. All provided machinery and equipment have been utilized properly for the Project activities.

Fund to Cover Local Cost

The Japanese side spent a part of the project management cost in order to implement the Project activities more effectively within the limited time allocation. The supplementary fund made by the Japanese side is shown in ANNEX 5.

2-1-2 PHILIPPINE INPUT

Assignment of Counterparts

Filipino counterparts have been assigned properly in accordance with the R/D. A list of assigned counterparts is attached as ANNEX 6.

Allocation of Budget

The Philippine side approximately allocated 22.47 million peso (equivalent to 83.79 million yen) in the last three years (1996~1998) as shown in ANNEX 7. In 1998 the budget was cut by 25% and traveling and training were restricted



due to the Asian economy crisis.

Provision of Land, Buildings and Facilities

The Philippine side have provided necessary land, building and facilities for the Project. The land is partially owned by the Tagbilaran city government, though.

2-2 PROGRESS OF ACTIVITIES

In the first year, a baseline survey was conducted to get information, to share findings, and to reach a common understanding on the actual socio-economic and agricultural conditions at the Project sub-site. Based on the results of the baseline survey, various research activities were prioritized and started. The Project faced a serious problem of water shortage due to El Niño phenomenon and the Capayas dam heightening work. The implementation of the Project activities was limited due to the above mentioned unfavorable conditions. However, it was able to accomplish a number of important activities especially to improve location specific technology for a rice-based farming system in the Sub-site as shown in Plan of Operation and Progress report forms in ANNEX 8.

Agronomy

Varietal screening and selection were conducted at the Bohol Agriculture Promotion Center (BAPC) field of Bohol Experiment Station (BES) and the Project research farm from the aspects of grain yield, resistance to pests, disease, drought, and fertilizer response. These also included adaptability of some upland and vegetable crops. Also started was a market survey on rice and other crops. On-farm verification study on rice-based cropping system was started for "Sinaka" (high water percolation area) condition.

Water Management

The basic data were collected in the Sub-site as basis for estimating the water requirements in crop condition. The water levels were measured to identify the volumes distributed to each lateral canal. The existing irrigation facilities were assessed. A participatory system management workshop was conducted to make irrigation scheduling by the Irrigators' Association (IA) members. Monitoring was conducted to further improve the present water distribution schedule.

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Farm Mechanization

Data of farm machinery distribution and market availability were collected and interviews were conducted to assess the farm machinery needs in the Sub-site. Some comparative field performance tests were conducted to study the field efficiency and capacity. Trial making of rotary weeder was conducted to improve farm operations. A staff training of farm machinery operation was conducted.

Farm Management

Selection of on-farm demonstration sites were examined and demonstration was started with 10 farmer cooperators. Farm record keeping was started with 8 farmer cooperators and a workshop to feed-back analytical results to the farmers was held. A massive information dissemination on the control against Tungro Rice Virus disease was conducted in the entire Bohol province.

Training

Training needs assessment was conducted for agricultural technicians and key farmers in Bohol. To enhance the capacity of BAPC staff, various staff trainings were executed. For IA members, some group trainings were also conducted.

Linkage

Monthly liaison officers' meetings were regularly conducted. The LGU technicians were included in the Project lateral teams and regularly visited farmers in each lateral.

2-3 ACCOMPLISHMENT IN TERMS OF OUTPUTS 2-3-1 BASELINE SURVEY AND MONITORING

The baseline survey report was published in March 1998 and distributed to the concerned organizations. The detailed implementation schedule was planned according to the baseline survey results. To monitor the progress of the Project achievements and to collect supplementary data, a mid-term survey was conducted in May 1999.

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2-3-2 IMPROVEMENT OF LOCATION SPECIFIC TECHNOLOGY

Agronomy

Two rice varieties were recommended with cultural practices to the farmers

and the cropping calendar was determined according to the water distribution schedule. The rate of farmers who followed recommended rice cropping calendar was increased from 60% to 85% in 1999 wet season.

Water Management

The tentative water distribution schedule was established with IA members' participation, and the schedule was revised to attain fair water distribution. IA membership was updated and members' willingness to participate was encouraged.

Farm Mechanization

Comparative field performance tests on farm equipment were executed and used for economic performance analysis. Ten modified rotary weeders were fabricated and distributed to farmers for trial use and evaluation.

Farm Management

The capacity of BAPC staff is enhanced through staff training. Two technoguides were printed and distributed to farmers with instructions. Two news letters and three news flashes were printed and posted on the 32 bulletin boards. On-farm demonstration provided practical information to farmers.

2-3-3 STRENGTHENING FARMERS IN THE SUB-SITE

A workshop on the improvement of IA organization for the Board of Directors of IAs in the Sub-site was held and IA officials moved for the re-organization of IA. The Project lateral teams facilitated IA meetings and the rate of meeting participation was increased to more than 60% from 50%.

2-3-4 TRAINING OF EXTENSIONISTS AND KEY FARMERS IN BOHOL

The training needs were identified through needs assessment workshop. Extension workers and key farmers attended a training with a field trip and attained updated agricultural information.

2-3-5 STRENGTHENING LINKAGES WITH RELATED INSTITUTIONS

The coordination among BAPC, LGU and NIA was strengthened through the periodical liaison officer meeting. However, two casual extension workers were discharged due to financial difficulties of Ubay municipality.

3. RESULT OF THE EVALUATION

3-1 EFFECTIVENESS

Because of the unpredictable water shortage caused by El Niño and the heightening of the Capayas dam, some of the activities were not implemented as scheduled. In addition, Japanese experts of Farm Management and Farm Mechanization were not dispatched as planned. These incidents forced the Project implementation delay by about one year. Nevertheless, the delay has been recovered significantly by the intensified efforts made by the Project. Although there are difficulties foreseen, the Team expects the Project purpose and outputs will be achieved with continued efforts on priority activities.

3-2 EFFICIENCY

3-2-1 BASELINE SURVEY AND MONITORING

The baseline survey was conducted by involving most technical staff of BAPC and this contributed to capacitating the staff to conduct surveys. However, it may be more efficient to conduct survey by contracting out the work. It was efficient that the Project had a staff training on qualitative survey method before a mid-term survey.

3-2-2 IMPROVEMENT OF LOCATION SPECIFIC TECHNOLOGY

Agronomy

The timing, quality and quantity of inputs for agronomy section may be considered to be highly efficient. The same short term expert on pest and disease control was assigned to the Project so that the said expert executed his task very efficiently and damages caused by Tungro was minimized. The research farm in the Sub-site was very efficient for identifying recommendable rice varieties and potentially desirable secondary crops.

Water Management

Data were not collected enough to estimate water requirement due to dam heightening construction and severe drought in the first two years. However, intensive field activity by four lateral teams consisted by water management staff with members from the other sections facilitated information dissemination and monitoring to achieve fair water distribution. This massive and intensive field activities were significantly efficient to recover the said delay. Simultaneous implementation of institutional strengthening of



IA and operation and maintenance of irrigation facility was very essential and practical.

Farm Mechanization

Little delay of activities was observed due to severe drought and delayed equipment procurement, although the delay can be recovered within the cooperation period. Comparative field performance tests of locally procured equipment for land preparation were executed and could be applied for practical use of equipment in the Sub-site. The original rotary weeder made of wood with a concept of farmer-fabricator is efficient because of low cost and simple design.

Farm Management

The baseline survey was conducted by involving almost all counterparts for a long term, but the outcome was not sufficient to show characteristics of farmers in the Sub-site. The capacity of BAPC staff was built by conducting the baseline study as one of staff training programs. A significant delay of extension activities was observed due to delayed dispatch of expert on farm management and delayed technology improvement caused by abnormal climatic condition. Timely input was critical for smooth implementation of the Project.

3-2-3 STRENGTHENING FARMERS IN THE SUB-SITE

A workshop on improvement of IA organization for Board of Directors of IAs in the Sub-site was held and IA officials moved for the re-organization of IA. The Project lateral teams facilitated IA meetings and the rate of meeting participation was increased to more than 60% from 50%.

3-2-4 TRAINING OF EXTENSIONISTS AND KEY FARMERS IN BOHOL

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3-2-5 STRENGTHENING LINKAGES WITH RELATED INSTITUTIONS

The coordination among BAPC, LGU and NIA was strengthened through the periodical liaison officers' meeting. However, two casual extension workers were discharged due to financial difficulties of Ubay municipality.

3-3 RELEVANCE

Overall goal and Project purpose are still consistent with the national policy. Increase in agricultural productivity in order to realize food security and poverty alleviation has been one of the most important issues to be addressed in the Philippines since the inception of the Project. Gintong Ani Program (GAP), which promoted development and extension of the location specific technology, designated the irrigated area as the priority area of the rice. The Maka MASA program, succeeding GAP, aims at economic development development. The Agriculture through agricultural Fishery Modernization Act (AFMA) enacted in 1997 gives priority to research and development in agriculture and fisheries as a means to achieve the steady production. Modernizing agriculture to raise productivity, attain food security, and increase the incomes of the rural sector where majority of the poor reside is the top priority area of the Estrada Administration, according to Medium-term National Development Plan (1999-2004).

3-4 IMPACT

Activities and outputs of the Project are visible to the farmers in the Sub-site. However, no significant impact on the Project overall goal has been found at this time.

3-5 SUSTAINABILITY

The Philippine counterparts trained in Japan remain at BAPC and are taking important roles in implementing the Project. Equipment and facilities provided by JICA are effectively utilized and well maintained. Sufficient amount of the funds to cover local cost are provided. The above factors are important to contribute to the sustainability of the Project outputs after the cooperation period.

4. MEASURES TO BE TAKEN

4-1 MODIFICATION OF THE PDM

The Team concluded that the overall goal, project purpose, outputs and major activities still have relevance and R/D should remain unchanged. The Team, however, found that some of the OVI (objectively verifiable indicators) need to be replaced so that they can be more easily measured and would have greater



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relevance. The Team received a draft revision of PDM proposed by the Joint Committee, which was held on September 7, 1999. After careful examination of the draft and intensive discussions with Japanese experts and the Philippine counterpart personnel, the Team and the project side reached preliminary agreement. In accordance with this agreement, the Team concluded to revise the current PDM as shown in ANNEX 9.

4-2 MODIFICATION OF THE TSI

The Team also received the draft revision of detailed TSI proposed by the Joint Committee. The Team found that the proposed revision is necessary for streamlining and prioritizing of the activities and endorsed the same as proposed. The revised detailed TSI is attached as ANNEX 10.

4-3 ACTIVITY PLAN AND PROSPECT

The Project accomplished a number of important activities especially to improve location specific technology for a rice based farming system in the Sub-site with some delay caused by unfavorable external conditions. In principle, the project will be completed by implementing activities as shown in Activity Plan in ANNEX 11. Some specific measures to be taken in each technical area are described below.

Agronomy

Detailed cropping calendar would be needed for each lateral canal group with selected varieties of appropriate growth duration. Implementable crop protection method against rice diseases should be disseminated to farmers as well as selecting new tolerant/resistant varieties. The identified secondary crops grown in dried paddy fields require specific cultivation technology that is different from that observed in upland field. It may be needed to invite a resource person on cultivation technology for some new crops in Bohol.

Water Management

For implementation of more efficient water distribution, it is necessary to provide technical assistance in scheduling based on water balance calculations. The increase in meeting attendance of IA members is a good indication that IA members recognized the importance of water distribution schedule. It is necessary to implement activities for further strengthening the IA, especially

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in the enhancement of IA management capability towards self-reliance. It may be needed to invite resource persons on IA institutional development and another as an advisor for water management manual.

Farm Mechanization

The farm operations are not so efficient in the Sub-site including low utilization of farm machinery. It is more important to improve farm operations from the economic aspect rather than improving machine performance. It is crucial to improve the rice quality in order to increase market competitiveness. This could be achieved by improving farm operations at farmer's level including utilization of farm machines as well as by improving rice processing operations that might lead to reduction in postharvest losses. To do so, it may require resource persons on postharvest technology.

Farm Management

It is necessary to establish a system to conduct farm management analysis together with farm demonstration activities. This may require further staff development in farming business through training and inviting resource persons on statistical analysis and farm management analysis. The Project should give more emphasis on activities to improve cost consciousness of farmers and to improve capability of farm management. In the future, it is advisable to diffuse an established rice-based farming system in combination with livestock production and off-farm work considering farming size and farming capacity.

5. RECOMMENDATIONS

Strengthening Linkages

Linkage among the concerned organizations are indispensable for achievement of the overall goal of the project. In this context, consultative meetings with concerned organizations should continue on a regular basis beyond the technical cooperation period. Linkage between BAPC and NIA provincial office in Bohol is crucial in particular as they envisage BHIP (Bohol Irrigation Project) Phase II in the near future. The outcomes and experiences of the Project should make a maximum contribution to successful implementation of BHIP Phase II.



Restructuring of BAPC

BAPC restructuring under consideration at DA RFU-7 (Regional Field Unit - 7, Department of Agriculture) in accordance with a new agriculture policy direction based on AFMA should strengthen R/D and E linkages and encourage BAPC activities. The Team favored the envisaged restructuring in this context. The Team, however, was concerned with possible negative effects of the restructuring on timely implementation of the Project. In this connection, the Team hoped that DA RFU-7 would make careful studies and take necessary steps towards the restructuring.

Sustainability

Sustainability of BAPC is an important prerequisite for the successful implementation of the Project and the achievement of the overall goal stated in the PDM. The Team urges DA to reassure its commitment to secure human resources and budgetary allocation, specifically for traveling allowances and training personnel for BAPC sustainability. Security of the land ownership is also needed for the sustainability of BAPC. The Team expresses concern on these issues and requests DA to seek an early solution to these problems.

Monitoring and Evaluation

To improve transparency and to produce more objective results, project related reviews and evaluation should be further undertaken together with DA Central, DA RFU-7, NEDA and State Colleges and Universities.

ANNEX 1 LIST OF JAPANESE ADVISORY STUDY TEAM MEMBERS

Leader

Mr. Nobuyuki Samejima

Managing Director, Agricultural Development Cooperation Department, Japan International Cooperation Agency (JICA)

Agronomy

Dr. Chukichi Kaneda

Technical Advisor, Association for International Cooperation of Agriculture and Forestry

Farm management

Dr. Hisataro Horiuchi

Professor, Faculty of Agriculture, School of Agricultural, Biological and Environmental Sciences

Water management

Mr. Toshiaki Ito

Section Chief, The First Prefecture-operated Projects Section, Land Improvement Division, Shiga Prefecture Hikone Branch Office

Farm mechanization

Ms. Chiho Sameshima

Chief, Technical Section, Fertilizer and Machinery Division, Agricultural Production Bureau, Ministry of Agriculture, Forestry and Fisheries

Technical cooperation

Ms. Mutsumi Onishi

Staff, Agricultural Technical Cooperation Division,

Agricultural Development Cooperation Department, JICA

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ANNEX 2. LIST OF JAPANESE EXPERTS DISPATCHED

1. Long-term Japanese experts

NAME	ASSIGNMENT	DURATION
Naoki IGUCHI	Team Leader	Nov. 11, 1996 - Feb. 26, 1999
Masaaki NISHIGAKI	Coordinator	Nov. 11, 1996 - Nov. 11, 1998
Toshio SHIBATA	Agronomy Expert	Nov. 11, 1996 - Nov. 10, 1999
Hiroshi TANAKA	Water Management Expert	Nov. 11, 1996 - Nov. 10, 1999
Hiroyuki SATO	Farm Management Expert	Nov. 11, 1996 - Nov. 10, 1998
Takeaki TOMIOKA	Farm Mechanization Expert	April 9, 1997 - Oct. 31, 1999
Ryosuke ITO	Coordinator	Oct. 26, 1998 - Oct. 25, 2000
Kunihiro TOKIDA	Team Leader	Feb. 14, 1999 - Feb. 13, 2001
Takashi NAKAMURA	Farm Management Expert	May 20, 1999 - May 19, 2001

2. Short-term Japanese experts

NAME	ASSIGNMENT	DURATION
Yoshilo SUZUKI	Plant Protection Specialist	Feb. 5 - 21, 1998
Toyotaka NIWA	Water Balance Analysis Specialist	Feb. 4 - March 6, 1998
Toshihiro SUDA	Farm Management	September 9-30, 1998
	Consultation Specialist	
Yasumasa KOGA	Post-Harvest Tech on Rice	Jan. 11 - Feb. 10, 1999
leko KAKUTA	Organization Management of	Feb. 10 - March 6, 1999
	Irrigated Association	
Jun CHINEN	Video Prodcution for Training	March 28 - April 10, 1999
Yoshito SUZUKI	Plant Protection Specialist	July 28 - Aug. 28, 1999
Koji YAMAGUCHI	Farm Machinery and	July 28 - Aug. 25, 1999
	Implement Design	
Masahiro ISOMURA	Design of Irrigation Facilities and	Sept. 1 - 29, 1999
	Irrigation Planning	



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ANNEX 3. LIST OF PHILIPPINE COUNTERPART PERSONNEL TRAINED IN JAPAN

NAMES	SUBJECT	DURATION
1. Ms. Efieda B. Castillon	Agricultural Cooperatives (Group Course)	May 12 to July 4, 1997
2. Ms. Rufa O. Doria	Irrigation Water Management (Group Course)	May 19 to Nov. 14, 1997
3. Mr. Edwin D. Palgan	Upland Crops Cultivation (Group Course)	July 22 to Oct. 17, 1997
4. Ms. Roxanna B. Epe	Post Harvest Processing (Group Course)	Aug. 28 to Nov. 18, 1998
5. Mr. Alexander P. Dohíg	Agricultural Machinery Management (Group Course)	April 27 to Nov. 1, 1998
6. M r. Felix N. Tubiano	Pest and Diseases on Rice (Individual Course)	May 25 to Sept. 2, 1998
7. Ms. Edna N. Yu	Irrigation Water Management (Group Course)	May 25 to nov. 20, 1998
8. Mr. Hector Eldred D. Encabo	Video Production (Group Course)	Aug. 20 to Dec. 17, 1998
9. Engr. Eugene C. Cahiles	Institutional Management and Planning on Extension & Research Organization	May 5 - 20, 1999
10. Mr. Florentino M. Evasco Jr.	Soil Analysis and Improvement	May 16 to Aug. 21, 1999



LIST OF MAJOR MACHINERY AND EQUIPMENT PROVIDED BY JAPAN (Unit value >=500,000Yen) ANNEX 4

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FREQUENCY OF USE A:DAILY

CONDITION

A: GOOD CONDITION

B:WEEKLY, MONTHLY

B: PRERATIONAL IN USE

C: USE IN SPACIFIC PERIOD

C: CONDITION FOR REPAIR

D: 3~11 TIMES USE /YEAR

E: IDLE

D: UNENABLE TO USE

ANNEX 5 LIST OF SUPPLEMENTARY FUND TO COVER LOCAL COST

Unit: (1,000 Japanese Yen)

Description Year	1996	1997	1998	Total
Local running cost	3,258	5,403	5,098	13,759
Local running cost(supplementary)			2,603	2,603
Cost for enligtment and extention		795	173	968
Cost for security measures			490	490
	3,258	6,198	8,364	17,820

ANNEX 6. LIST OF PHILIPPINE COUNTERPART PERSONNEL ASSIGNED

DIVISION /	NAMES (age)	POSITION /	DESIGNATION	Date of
SECTION	NAMES (age)	Bohol APC	BIAPP	Assignment
Project Head	Engr. Eugene C. Cahiles (41)	Sr. Agriculturist	Project Manager	Feb-99
Asst. Head	Mr. Abdel B. Apalisok (42)	Agriculturist 1	Asst. Head (OIC)	Арг-99
Agronomy	Ms. Mary Jean C. Du (35)	Agriculturist 2	Section Head	Feb-97
	Mr. Edwin D. Palgan (36)	Agriculturist 1	Unit Head	Mar-90
	Ms. Concepcion B. Payapaya (43)	Agriculturist 2	Unit Head	Sep-89
	Ms. Rizalina G. Cahiles (40)	Agriculturist 1	Unit Head	Sep-96
	Ms, Chona E. Maleza (33)	Agril. Technologist	Technical Staff	Mar-90
	Ms. Wencisa B. Egama (36)	Agr'l, Technologist	Technical Staff	Feb-94
	Ms. Efieda B. Castillon (40)	Agr'l, Technologist	Technical Staff	Jul-98
	Mr. Felix N. Tubiano (33)	Agr'l. Technologist	Technical Staff	Jul-92
	Mr. Felipe T. Apale (38)	Agr'l. Technologist	Technical Staff	Feb-97
	Ms. Celerina T. Galorio (39)	Agr'l, Technologist	Technical Staff	Apr-86
	Mr. Jose M. Bunachita (45)	Agr'l, Technologist	Technical Staff	Jul-92
	Mr. Florentino M. Evasco Jr. (42)	Agr'l. Technologist	Technical Staff	Sep-86
	Ms. Adoracion T. dela Cruz (35)	Agriculturist 2	Technical Staff	Sep-86
	Ms, Rosenda R, Bucia (40)	Agr'l. Technologist	Technical Staff	Mar-94
Water Management	Mr. Antonio S. Du (38)	Agriculturist 1	Section Head	Feb-97
	Ms. Camila A. Descallar	NIA/IDO	Technical Staff	Jun-97
	Mr, Tito L. Cañas (42)	Agr'l. Technologist	Technical Staff	.Feb-97
	Ms. Rufa o. Doria (33)	Agr'l, Technologist	Technical Staff	Feb-97
	Ms. Edna N. Yu (32)	Agr'l. Technologist	Technical Staff	Apr-97
	Mr. Saturnino A. Jamilo (37)	NIA	Technical Staff	Jun-97
Farm Mechanization	Mr. Marcial D. Agad (40)	Agr'l. Technologist	Section Head	1990
	Mr. Sergio M. Sumaoy (44)	Agr'l. Technologist	Technical Staff	Sep-95
	Mr. Rodrigo R. Pechon (29)	Agr'l. Technologist	Technical Staff	Apr-97
	Ms. Roxanna B. Epe (33)	Agr'l. Technologist	Technical Staff	Feb-97
	Mr. Rico Rommel A. Varquez (26)	Agr'l. Technologist	Technical Staff	11/997
	Mr. Alexander P. Dohlg (42)	Mechanic	Agr'l. Farm Technician	Sep-95
Farm Management	Mr. Erlindo L. Samblaceño Jr. (39)	Agriculturist 1	Division Head	Mar-99
	Ms. Grace Len C. Dagala (37)	Agriculturist 1	Technical Staff	Feb-97
	Mr. German M. Makiling (40)	Agriculturist 2	Technical Staff	Jul-90
	Mr. Rolando T. Alaan (40)	Agr'l. Technologist	Technical Staff	Feb-97
	Mr. Medardo B. Aparece (42)	Agrl. Technologist	Technical Staff	Jul-92
	Ms. Concordia G. Damalerio (43)	Agr'l, Technologist	Technical Staff	Jul-92
	Ms. Wilfreda C. Malayao (30)	Agr'l. Technologist	Technical Staff	Jul-92
	Ms. Barbara O. Pacatang (39)	Agr'l, Technologist	Technical Staff	Jul-98
	Ms. Ma. Corazon A. Patindol (26)	Agr'l, Technologist	Technical Staff	Apr-98
	Mr. Hector Eldred D. Encabo (43)	AO Eqpt. Optr.	AV Eqpt. Technician	Aug-90



ANNEX 7 LIST OF BUDGET ALLOTMENT

Unit: (1,000Peso)

Description Year	1996	1997	1998	Total
Contractual Labor cost	2,234	2,076	2,076	6,386
Travelling Expenses	645	1,117	330	2,092
Communication Services	17	60	22	99
Repair & Maintanance of Gov't Facilities	18	70	22	110
Repair & Maintanance of Gov't Vehicles	270	176	170	616
Transportation Services	45	145	55	245
Supplies & Materials	1,631	1,054	892	3,577
Rents	0	135	110	245
Water, Illumination, & Powar Services	595	700	770	2,065
Training & Seminar Expenses	1,620	730	300	2,650
Gasoline Oil & Lubricants	270	300	330	900
Other Services	540	1,200	1,748	3,488
Total	7,885	7,763	6,825	22,473





ANNEX 8 PLAN OF OPERATION AND PROGRESS

Plan of Operation & Progress (Agronomy)

TSI No. 2-1 To improve cultivation technology

TSI No. 2-2 To improve cropping systems

As of September, 1999

13110. 2-2	o improve cropping syst													
Activities	Final Target				Sch	edule					gress %)	Person in charge	Accomplishment	Remarks
	:	1997	1998	1	1 2	999	4	2000	2001	Act ¹⁾	T.T. ²³			
2-1-1 Varietal screening and selection	High yielding varieties with resistance to pests and diseases (3-4 varieties).				_					50	75	Egama Du	©2 varieties selected and recommended	PSB Rc-18 PSB Rc-32
	Determination of special purpose rice varieties (aromatic, glutinous, red)									25	50	Du Egama	② initial screening and collection of seed materials	
2-1-2 Improvement of cultural	Establishment of cultural management practices on			:			_		<u></u>	50	75	Payapaya , Evasco,	© Recommended technology formulated and	Techno Guide I & II News Letter,
management practices	lowland rice Formulation of integrated pest/disease management						<u> </u> 		-	75	75	Dela Cruz, Du,	improvement added 2 Pest & disease management, 85%	News flash (Varieties, Rice Tungro, Kuhol,
	Seasonal rice yield and cultural practices of farmers.	-	- -	 :	-	'	-		_	50	100	Egama, Tubiano, Castillon	synchronized planting is Yield survey conducted per season	synchronous planting) (Provision of
	Report on market study results with necessary information.		•	•		-				75	75	Maleza Maleza	Market study conducted & report prepared (Aug 1999)	technical information)
2-1-3 Technology verification	Verification of recommended technology on rice at farmers' field with emphasis on yield & profitability.				:	:				25	50	Castillon Du	Recommended rate of fertilization verified.	301999DS 13site 1999WS 20site + 12 sites for PhilRice collaboration
2-2-1 Improvement of rice-based cropping patterns	Selection of suitable secondary crops after rice. Establishment of cultural management practices for		_						1	50	50	Palgan Cahiles Galorio Bunachita Busia	उ Potential secondary crops selected	bulb onion, water melon, squash, mung, sweet potato, peanut
	selected secondary crops.		i				-	ļ	·	25	25	Apale		
2-2-2 On-farm verification of rice-based cropping patterns	Successful adoption of cropping pattern at selected farmers' field.				!					25	25	Cahiles Busia Palgan Bunachita Galorio	© Gross income of P3,300 per 0.1ha obtained from watermelon.	Verification of secondary crops to be done in dr season in Sinak areas.
2-2-3 Integration of technologies for rice-based farming system	Location specific rice-based farming system is formulated and disseminated.									25	25	All	development progressed	TSI 2-2-3 FMgt will take th initiative. (move to FMgt)

¹⁾ Activity 2) Technology Transfer

PLAN OF OPERATION & PROGRESS (Water Management Section)

2.3 DEVELOPMENT OF APPROPRIATE WATERMANAGEMENT TECHNOLOGY
2.4 IMPROVEMENT OF THE OPERATION & MAINTENANCE SYSTEM OF IRRIGATION FACILITIES

As of September 1999

	TO THE OF EIGHTON'S								1	Prog		Person	As of September 1995
TSI Activities	Final target	97	98		19	99	ı	00	01	(%		in	Accomplishment
1 Of Add Video	l marterget	"	30	1	2	3	4		0.	Act	T.T	charge	Accomplishment
TSI 2-3-1 Assessment of present condition of the Project Sub-site	CIP beneficial area is determined.									75	75	All W/M Counter -part	-Updating of lay out Capayas on map -Related water requirement data(75%) -Farmers' consciousness on W/M
TSI 2-3-2 Development of Water Distribution Scheme	Tentative rotation irrigation plan is made.									50	50	All W/M Counter -part	-Water balance calculation program for computer(80%) -Revise of cropping calendar -Formulation of tentative water allocation (30%)
TSI 2-3-3 Development of On- farm Water Management Practices	Rotation irrigation plan and controlled planted rice area is made.		*****							25	25	All W/M Counter -part	-Observation on the effect of water shortage
TSI 2-4-1 Inventory and Assessment of existing Irrigation Facilities	Present condition and problems are identified and improvement plan is made.									75	75	All W/M Counter -part	-Inventory and assessment of existing irrigation facilities(70%) -Temporary modification of the irrigation facilities
TSI 2-4-2 Preparation of Operation and Maintenance System for Capayas Irrigation Project (CIP)	Operation and Maintenance guidelines are made									75	75	All W/M Counter -part	-Cropping calendar and tentative water distribution plan was decided in System Management Workshop
TSI 2-4-3 Testing and Modification of the Operation and Maintenance System	O & M systems is established									25	25	All W/M Counter -part	-Monitor & Modify tentative water distribution plan
TSI 2-4-4 Production of Water Management Manual	Water management manual for technical staff is made.									_		All W/M Counter -part	

(Act: Progress of Final Target of the Activity, T.T: Progress of Technology Transfer to the counter part on TSI)

ANNEX 8 PLAN OF OPERATION AND PROGRESS

Plan of Operation & Progress (Agronomy)

TSI No. 2-1 To improve cultivation technology

TSI No. 2-2 To improve cropping systems

As of September, 1999

Activities	Final Target				Sch	edule				Progress (%)		Person in charge	Accomplishment	Remarks
		1997	1998	1	1	999	4	2000	2001	Act ¹⁾	T.T. ²⁾	, and the second		
2-1-1 Varietal screening and selection	High yielding varieties with resistance to pests and diseases (3-4 varieties). Determination of special									50 25	75 50	Egama Du	①2 varieties selected and recommended ② initial screening and	PSB Rc-18 PSB Rc-32
	purpose rice varieties (aromatic, glutinous, red)									2.0	00	Egama	collection of seed	
2-1-2 Improvement of cultural management	Establishment of cultural management practices on lowland rice									50	75	Payapaya , Evasco, Dela	Recommended technology formulated and improvement added	Techno Guide & News Letter, News flash
practices	Formulation of integrated pest/disease management Seasonal rice yield and cultural practices of farmers.									75 50	75 100	Cruz, Du, Egama, Tubiano,	Pest & disease management; 85% synchronized planting Yield survey	(Varieties, Rice Tungro, Kuhol, synchronous planting)
	Report on market study results with necessary information.		•			_	_			75	75	Castillon Maleza Maleza	conducted per season Market study conducted & report prepared (Aug 1999)	(Provision of technical information)
2-1-3 Technology verification	Verification of recommended technology on rice at farmers' field with emphasis on yield & profitability.									25	50	Castillon Du	Recommended rate of fertilization verified.	①1999DS 13sites 1999WS 20sites + 12 sites for PhilRice collaboration
2-2-1 Improvement of rice-based cropping patterns	Selection of suitable secondary crops after rice. Establishment of cultural management practices for									50	50	Palgan Cahiles Galorio Bunachita Busia	Potential secondary crops selected	bulb onion, water melon, squash, mung, sweet potato, peanut
	selected secondary crops.			<u> </u>		ļ				25	25	Apale Cahiles	① Gross income of	Verification of
2-2-2 On-farm verification of rice-based cropping patterns	Successful adoption of cropping pattern at selected farmers' field.									25	25	Busia Palgan Bunachita Galorio	P3,300 per 0.1 ha obtained from watermelon.	secondary crops to be done in dry season in Sinaka areas.
2-2-3 Integration of technologies for rice-based farming system	Location specific rice-based farming system is formulated and disseminated.									25	25	All	① Technology development progressed	TSI 2-2-3 FMgt will take the initiative. (move to FMgt)

¹⁾ Activity 2) Technology Transfer

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PLAN OF OPERATION & PROGRESS (Water Management Section)

2.3 DEVELOPMENT OF APPROPRIATE WATERMANAGEMENT TECHNOLOGY

2.4 IMPROVEMENT OF THE OPERATION & MAINTENANCE SYSTEM OF IRRIGATION FACILITIES

As of September 1999

TSI Activities	Final target	97	98		19	99		00	01	Prog		Person in	Accomplishment
101 Activities	i mai taiget			1	2	3	4		"	Act	T.T	charge	Accombination
TSI 2-3-1 Assessment of present condition of the Project Sub-site	CIP beneficial area is determined.									75	75	All W/M Counter -part	-Updating of lay out Capayas on map -Related water requirement data(75%) -Farmers' consciousness on W/M
TSI 2-3-2 Development of Water Distribution Scheme	Tentative rotation irrigation plan is made.									50	50	All W/M Counter -part	-Water balance calculation program for computer(80%) -Revise of cropping calendar -Formulation of tentative water allocation (30%)
TSI 2-3-3 Development of On- farm Water Management Practices	Rotation irrigation plan and controlled planted rice area is made.									25	25	All W/M Counter -part	-Observation on the effect of water shortage
TSI 2-4-1 Inventory and Assessment of existing Irrigation Facilities	Present condition and problems are identified and improvement plan is made.									75	75	All W/M Counter -part	-Inventory and assessment of existing irrigation facilities(70%) -Temporary modification of the irrigation facilities
TSI 2-4-2 Preparation of Operation and Maintenance System for Capayas Irrigation Project (CIP)	Operation and Maintenance guidelines are made									75	75	All W/M Counter -part	-Cropping calendar and tentative water distribution plan was decided in System Management Workshop
TSI 2-4-3 Testing and Modification of the Operation and Maintenance System	O & M systems is established									25	25	Ali W/M Counter -part	-Monitor & Modify tentative water distribution plan
TSI 2-4-4 Production of Water Management Manual	Water management manual for technical staff is made.				f T					-	-	All W/M Counter -part	

(Act: Progress of Final Target of the Activity, T.T: Progress of Technology Transfer to the counter part on TSI)



Plan of Operation and Progress (Farm Mechanization Section)

TSI No.2-5 Improvement of farm machinery operations and postharvest technology TSI No.2-6 Improvement of farm machinery utilization and management

As of September 1999

					Sche	edul	e			Prog	ress	C/P in	
TSI Activities	Final target	97	98		19	99		0	1	(9	6)		Accomplishment
		31	30	1	2	3	4	9		Act	T.T.	charge	
2-5-1, Needs	Key farmer selection	_				-		-	-	75	50	R. EPE	Need assessment I report (98/07), Survey design proposal (99/04)
Base for Farm	Price survey of machinery	-	-		=		-	-	-	50	50	R. PECHON, R. R. Varquez R. PECHON,	Machine selling price Report each crop seas
Mechanization	Data base dissemination						-	•		0	25	R. R. Varquez	('97~'99)
2-5-2. Performance Test and Improvement of	Performance test of local Machinery	•				-				50	50	All Staff	6 performance test report on the several far machinery ('98~'99)
Farm Machinery operations	Selection and Improvement of Farm Machinery		_	_	•			-	-	50	75	R. PECHON, R. R. Varquez	The lathe machine operation training (99/06) Manual rotary weeder development (99/08)
2-5-3. Improvement of farm level	Appropriate drying method finding						-	_	-	0	25	M. AGAD,	
postharvest technology	Dissemination of the above method						-	-		0	25	M. AGAD, R. EPE	٠
2-5-4. Improvement of rice	Appropriate processing system finding							_	-	25	25	All staff	Rice miller seminar I (98/12), Rice miller seminar II (99/01)
processing system	Dissemination of the above system						-			0	50	S. SUMAOY R. EPE	
2-6-1. Economic analysis of farming	On farm survey of several farm operation		-	+	-			_	-	25	50	All Staff	Economic analysis of Land Preparation(98~9
operations	Dissemination of the above result by News Letter on Farm Management							-	_	0	0	S. SUMAOY	
2-6-2. Improvement of farm machinery	Improvement of farm machinery operators				_			-	-	25	75	M. AGAD, A. DOHIG	Farm machinery operation training I (99/06)
management system	Farm machinery monitoring on farm							,		25	25	Ali Staff	
2-6-3. Produce and utilization of farm	Collection of useful Farm Mechanization Information	-	-	-				-		25	50	All Staff	Revise performance test result with in one paper format (60%)
machinery management manual	Manual production & information dissemination							,	-	25	25	All Staff	Manuscript making of News letter and Tech Guide on post harvest(99/05)



	- And the state of			Sch	edu	le		Prog	ress			
Activities	Final Target	1997	1998	19	99	2000	2001	Act	П	In-charge(s)	Accomplishment	Remarks
1. Formulation of detailed workplan	based on the baseline survey and	condu	ct of th	e m	onit	oring o	f the P	roject	ach	ievement		
1-1 To conduct a baseline survey												
1-1-1 Planning and implementation	baseline survey at CIP							100	75	Apalisok	Conducted to a total of 497 farm-household	
1-1-2 Data Analysis	Come up with a comprehensive report							100	75	Dagala	Published baseline survey report	
1-2 To prepare the project activity p		5										
1-2-1 Preparation of participatory project planning	Development of guidelines and several formats on project planning							100		Apalisok	Finalized guidelines & format for participatory planning	
1-2-2 Participatory project planning workshop 1 & 2	Draft Tentative Schedule of Implementation							100	75	Apalisok	Finalized BIAPP TSI	
1-3 To conduct monitoring of the pro-	oject											
and evaluation method	Development and introduction of the M&E concept within all divisons and sections of BIAPP							50		Cubero, Patindol	Conducted evaluation to training activities	Concept was only adopted within Farm Mgt.
1-3-2 Monitoring and Evaluation	Adoption and conduct of monitoring and evaluation to all BIAPP activities					34	(7 30)	50	25	Cubero, Patindol	within Farm Mgt. Div.	Div.
2. Improvement and dissemination	of lacation spicific technologies for	a Rice	e base	d Fa	rmi	ng syste	em in ti	he Pr	oject	sub-site		
2-7 To improve Farm Mgt. Efficience	У		`									
2-7-1 On-Farm Demonstration	Introduction of improved farming system and improvement of crop productivity							25	25	Samblaceno Alaan Damalerio Aparece	Established (10) sites & introduced improved crop technology	Just started
2-7-2 Seed Self Sufficiency Promotion	Establishment of efficient & sustainable seed distribution scheme							25	25	Samblaceno Alaan, Damalerio, Aparece	Availability of Certified seeds	Yield reduction by 50% due to tungro and stemborer



			· · · · · · · · · · · · · · · · · · ·	Sch	edu	e		Prog	ress			
Activities	Final Target	1997	1998	19	99	2000	2001	Act	π	In-charge(s)	Accomplishment	Remarks
2-7-3 Information Services	Sufficient Documents on Info and Training instructional materials on BIAPP							50	50	Pacatang, Dagala	Distributed print materials & established info system at CIP	
2-8 To enhance extension activity in	order to disseminate appropriate	techno	ology									·
2-8-1 Staff Development Training	Enhancement of capabilities of BIAPP staff							50		GL Dagala C Patindol	Conducted (9) trainings	
2-8-2 Training and Information Materials production	Sufficient Documents on Info and Training instructional materials on BIAPP							50	50	GL Dagala Ecabo Pacatang	Produced (8) Info video titles and 5 titles/batches print materials	
3. Improvement of management ca	pability of farmers in the project su	ub-site										
3-1 To enhance farmers organization	on (IA's etc.) in the project sub-site	toward	ds self	relia	nce)	·					
3-1-2 Training for IA members	Increased capabilities of IA members to be self reliant							50	25	Malayao Patindol Makiling	Conducted workshops & training needs assessment	
3-2 Improve practical mangement s	kills											
3-2-2 Consultation on farm management skills	Adoption of daily farm-household activities recording							50	25	Alaan Samblaceno Damalerio Aparece	introduced daily recording of farming activities to 8 cooperators	
4 Enhancement of training for irriga	ited agro-ecosystem											
4-1 To train agricultural extension workers of LGU	Strengthen extension system of LGU							25		GL Dagala Patindol Makiling	Conducted workshops & TNA	
4-2 To train key farmers in Bohol	Introduction /adoption of developed BIAPP technologies							25	25	GL Dagala Patindol Makiling	Conducted workshops & TNA	



ANNEX 9 PROJECT DESIGN MATRIX (PDM) FOR BOHOL INTEGRATED AGRICULTURE PROMOTION PROJECT (BIAPP) IN THE REPUBLIC OF THE PHILIPPINES Ver. 3.2 (Oct. 7, 1999) Drafted by the Advisory Study team and the BIAPP team

Cooperation term: November 11, 1996 - November 10, 2001 (5 years)
Project Sub-site (Target area): Land Cultivated by Irrigator's Association (IA) members in Capayas Irrigation Project (CIP)

Implementing Organization: Department of Agriculture Target group: IA members (farmer beneficiaries) in CIP

NARRATIVE SUMMARY	OBJECTIVELY VERIFIABLE INC	DICATORS (OVI)	MEANS OF VERIFICATION	IMPORTANT ASSUMPTIONS
OVER ALL GOAL				a. Bohol remains as Central Visayas' primary
Agricultural production and Income of farmers in Bohol are increased.	* Total rough rice production in Bohol is incres	sed	* Information from Bureau of	agriculture area.
	to 250,000 tons by 2005.		Agriculture Statistics	b. National policy on provision of physical facility
	* Poverty incidence is decreased by 20% by 2	005 in Bohol.	* Information from Provincial	for agriculture sector stays.
			Development Office	c. National policy on rice price remains stable.
PROJECT PURPOSE	1			
Agricultural productivity is increased by improving management of	* Average rice yield in Irrigated lowland in the		* Survey by APC	a. Provincial government maintains higher priority
farming activities in the project sub-site.	increase from 2.8t/ha. (1996) to 4.0t/hs. by 2	:001.	1	for food security and poverty alleviation
	1		}	b. APC remains technology promotion center
			<u> </u>	for rice-based familing system. c. Bohol Imgation Project is implemented without any delay.
OUTPUTS				to be a singular report to important to the real state.
(1) Baseline survey and monitoring can be conducted by APC staff.	1. One (1) Baseline report and 3 monitoring re	ports are published.	1. APC publications and reports	a. APC retains the function of research, training and
(2) Improved location specific technologies for a Rice-based farming	2-1 95% of IA members adopted the synchron	ous nee production	2.1 Survey by APC	extension on rice-based faeming system.
system are adopted in the Project sub-site.	farming system in 2001.		l .	b. Trained APC staff continues their work at APC
(3) Effective management of IA activities carried out in the	2-2 90% of IA members plant recommended r	icə varieties	2-2 Record by APC	c. NIA continues to efficiently operate the Capayas
project sub-site.	in imigated area of the sub-site in 2001.		1	irrigation System.
(4) Technical capabilities of extension workers and key farmers	2-3 50% of IA members increase agricultural i	ncome by	2-3 Survey by APC	d. Economic condition is stable in Bohol.
in Bohol are anhanced.	applying BIAPP techno-guide in 2001.			1
(5) Agricultural promotion system is improved by enhanced	3-1 80% of IA members attend the meetings.		3-1 Record of APC and NIA	Į.
collaborative linkages of APC with local Government Unit	3-2 irrigation Service Fee collection is over 80		3-2 Record of APC and NIA	
(herelisafter referred to as LGU) and concerned organizations.	 80% of extension workers on rice-based far are trained. 	ming system	4. APC record and report	
	5. 90% of involved government organization,	non-governmental	5. Attendance list of	
	organization and concerned agencies part		workshop/meeting	
	consultative workshop/meeting conducted.		# on the control of t	
ACTIVITIES	INPUTS			· · · · · · · · · · · · · · · · · · ·
(1) Formulation of detailed workplan based on the baseline survey and	(Japanese Side)	(Philippine side)		a. There is no social obstruction (land ownership etc.) to
conduct of the monitoring of Project achievement.	1. Long Term Experts	1. Counterpart pers	fennos	farmers participation to the Project.
1) Execution of baseline survey	1.1 Team Leader	1.1 Project Man	ager	b. LGU and NIA actively participate and support the Project.
Preparation of to Project activity plan and prioritize research subjects	1.2 Coordinator	1.2 Deputy Proje	ect Manager	c. No severe drought affects dam water reservation.
3) Monitoring of the Project.	1.3 Agronomy	1.3 Counterpart	Personnel for the Expert	d. Budget is available to implement the Project.
(2) improvement and dissemination of location specific technologies	1.4 Water Management	(at least 2 e		e. APC staff (both permanent and casual) is fully assigned.
for a Rice-base Farming system in the Project Sub-site	1.5 Farm Mechanization		ve and other staff to support	f. No excessive incidence of major pests and diseases.
Project Sub-site	1.6 Farm Menagement	the Project a	zclivities	
1) Improvement of cultivation technology	Sheet to	C. Dhunlant to attitle	_	
2) Improvement of cropping systems 3) Development of appropriate water management technology	Short-term experts (when necessity arises)	2. Physical facilitie		1
A) improvement of the operation and maintenance system of infigation facilities	(when necessity anses)	2.1 Buildings, 18 Project	acilities, office space for the	PRE-CONDITIONS
5) improvement of farm machinery operations and postharvest technology	3. Equipment and machinery		schinery and equipment	a. Farmers in the CIP area cooperative in the Project activities.
Improvement of farm machinery utilization and management	3.1 Agricultural machinery, equipment		vater and communication	b. Counterpart personnel is assigned for each Japanese Exparts.
7) Improvement of farm management efficiency	and spare parts.	facilities	Tale: and application to the	c. GOP counterpart fund is available.
8) Enhancement of extension activity in order to disseminate appropriate technology	3.2 Vehicles necessary for TCP activities		oulidings and facilities	d. APC maintains its key role in rice-based farming system.
(3) Improvement of management capability of IA in the Project Sub-site	3.3 Teaching materials and	· ·	or the Projects	e. DA retains physical location of APC.
Facilitation of IA organization improvement and IA meeting	communication equipment including			
2) Facilitation of reviewing policies and making rules	audic-visual equipment			
Improvement of accounting system and financial management			nses necessary for the	
(4) Enhancement of training	3.4 Technical instruments & equipment	implementation	of the Projects	
Training of agricultural extension workers of LGU	3.5 Other equipment necessary for TCP			
2) Training of key farmers in Bohol	activities	4. Others		1
(5) Enhancement of collaborative linkage to APC with LGU and concerned	I. a		and management of committees	
organizations in carrying out of the Project activities of (1) to (4) above	4. Counterpart training	necessary for p	roject implementation	1
Enhancement of collaborative linkage of APC with line agencies and national institutions	Training of Philippine personnal in Japan			
2) Enhancement of collaborative linkage of APC with LGU and the				/ \
concerned local organizations				/ \
				· /

									Mod	dified	for the	e revis	sion du	ring J	oint C	omm	itice m	eeting	on S	ept. 7,	, 1999
Year	96			97				98				999				000				001	
Quarter	11-12	1-3	4-6	7-9	10-12	1-3	4-6	7-9	10-12	1-3	4-6	7-9	10-12	1-3	4-6	7-9	10-12	1-3	4-6	7-9	10-1
Activity	1																				
1 Formulation of detailed work plan based on the baseline survey and conduct of the	e monit	oring (of Pro	ect a	chiever	nent.								_,							
1-1 Execution of a baseline survey	6				(內)	SHEET.															
1-2 Preparation the Project activity plan and prioritize research subjects		1600	Account									1.03								1934	
1-3 Monitoring of the Project						SAM	e samenage				- Marie Control				460				أميانه محسا		
2 Improvement and dissemination of location specific technologies for a rice-base	i farmin	g sys	lem in	the F	roject	sub-s	te.														
2-1 Improvement of cultivation technology																					
2-1-1 Varietal screening and selection											ي دمان ا	1.00	15(3), 15	1	20	· 数字。		1000	1272	3000	32.5
2-1-2 Cultural management practices	T																100 4		1.1		140.00
2-1-3 Technology verification										L.				L		E	漢明就	dan.	第	100	421
2-2 Improvement of cropping systems		1																			
2-2-1 Improvement of rice-based cropping patterns															34.0	ない。	过度等				
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2-3 Development of appropriate water management technology	T																				
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2-4 Improvement of the operation and maintenance system of irrigation facilities	1								1												
2-4-1 Inventory and assessment of existing irrigation facilities	1					ac.	******	AND S	(海绵)												
2-4-2 Making and improvement of operation and maintenance guidelines	1					1	250			1000	温险:	-						2.572	John .	2.35	3,17
2-4-3 Produce and utilization of water management manual	1	—	<u> </u>					_	20.00	785-6		300	Pakit								
2-5 Improvement of farm machinery operations and postharvest technology	†	 				1															
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2-5-3 Improvement of farm level postharvest technology	1	 		_	1		可答法	.#K	11.	\$ 15 miles							14. 14241	W 120	Win.	2- 3	-60
2-5-4 Improvement of rice processing system	-	\vdash			<u> </u>	196182.5	1.01303	13.000	四點經	-stricts	2505								4. 420	77.7	25,000,000
2-6 Improvement of farm machinery utilization and management	+	 	 		 	 		1,000,00	1 10000	7 1077	1,1,2,1,7	1	1								
2-6-1 Economic analysis of farming operations		├	├			30,95%	100														
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2-7-1 Analysis of farming business and management		├			-	⊢			Telephone	teach.	地震										
2-7-2 On-farm demonstration	-	 	<u> </u>			\vdash		\vdash	3434	PATRICE.	1200										
2-7-3 Improvement of seed production system	 	├	 			├		-	STATE OF THE STATE				(A)								
2-7-4 Integration of technologies for rice-based farming system			 			├ ─	and Min	100000	国际国际	July Street	16.65										
2-7-5 Improvement of practical management skills		┼		ļ		 	119,800	430,0300	Manage	40100	3600.90				نيان						1
2-8 Enhancement of extension activity in order to disseminate appropriate technological	gy			Ĺ			-						<u> </u>		<u> </u>	1		ALCO A	6 Warn	discretion	SAVECT
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-70-



ANNEX 11 ACTIVITY PLAN

WORKPLAN OF AGRONOMY SECTION (BIAPP) 1999 2000 2001 Cross Remarks Activities based on TSI 3rd 4th 1st 2nd 3rd 4th 1st 2nd 3rd 4th Section Improvement & dissemination of location specific technologies TSI No. 2 for a rice-based farming system in the Project sub-site Improvement of cultivation technology 2.1.1 Varietal screening and selection (1) Screening of PSB Lowland Rice Varieties WM (2) Screening of Special Purpose rice varieties/elite lines aromatic, red. **FMech** glutinous 2.1.2 Improvement of cultural management practices (1) Fertilizer & cultural management practices WM/FMgt (2) Integrated pest & disease management 2.1.3 Technology verification (1) On-farm verification of technologies on irrigated lowland rice **FMgt** (2) Field evaluation and adaptation test **FMgt** PhilRice* (Collaboration with PhilRice included) 2.2 Improvement of cropping systems 2.2.1 Improvement of rice-based cropping patterns (1) Selection of suitable secondary crops The second secon Marie Agency of the Control of Agency Control of Contro (2) Improvement of cultural management practices of selected secondary crops 2.2.2 On-farm verification of rice-based cropping patterns The section of the se (1) On-farm verification of selected secondary crops **FMgt** (2) On-farm adaptation test of cropping patterns **FMgt** Philrice* (Collaboration with PhilRice included)

^{*}Collaboration with PhilRice will continue even after BIAPP.

Section Activity Plan of Water Management (1999-2001)

A	1	199	9			20	00			200	11		Cross section
Activities	Jul AL	Sep Sep	Oct N	ov Dec	1	2	3	4	1	2	3	4	Cross section
ISI 2.3 DEVELOPMENT OF APPROPRIATE WATERMANAGEMENT	TECI	INOL	OGY										
ISI 2-3-1 Assessment of the present condition of Capayas irrigation													
Project				<u> </u>						ļ			
-Modification of CIP area map(1/4,000)	• -	•											
-Water requirment data	<u> </u>	•											
-Meteological data	•												
-Soil data		•	<u>}-</u>										Agro.
rSI 2-3-2 Development of Water Distribution Scheme													
-Water balance numerical analysis	•	-											
-Fomulation of water allocation and distribution plan	$\Box \Box$	•	_			-							
ISI 2.4 IMPROVEMENT OF THE OPERATION & MAINTENANCE SY	STEM	OF	RRI	GATIC)N F	ACI	LITI	ES					
TSI 2-4-1 Inventory and Assessment of Existing Irrigation Facilities				100									
-Facility improvement plan		•											
-Modification of the facilities		•											
TSI 2-4-2 Making and Improvement of Operation and Maintenance													
guidelines						17.7	*						
-Formulation of appropriate operation and maintenance guidelines		•	-										
-Testing and modification of the guidelines		•						_					
rSI 2-4-3 Produce and Utilization of Water Management Manual													F/M
-Produce of water management manual				1						-•			
-Utilization of water management manual										•			<u> </u>
TSI 3 IMPROVEMENT OF MANAGEMENT CAPABILITY OF IA IN TH	E PRO	OJEC	SU	B-SIT	Ε								
TSI 3 -1 Facilitation of IA Organization Improvement and IA Meetings													F/M(Team)
-Conduct work shop for BOD	•	-						_					
-Improved organization structure		•	_•				ļ						
TSI 3-2 Facilitation of Reviewing Policies and Making Rules													F/M(Team)
-Making roles and functions			•	-									
-Implementation and monitor of the rules				•				\equiv					
		\neg											
TSI 3-3 Improvement Accounting System and Financial Management										}			F/M(Team)

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Section Activity Plan of Farm Mechanization

TSI Activities	19	99		20	00			20	Cross		
131 Activities	3rd	4th	1st	2nd	3rd	4th	1st	2nd	3rd	4th	Section
2-5-1 Needs assessment and data base for farm mechanization ·Key farmer selection ·Price survey of machinery ·Data base dissemination											F/M (Team)
2-5-2 Performance test and improvement of farm machinery operations Performance test of Local Machinery Selection and Modification of appropriate machinery and tool Trial making of Appropriate machinery and tool Performance test of trial making machinery and tool				242.22							
2-5-3. Improvement of farm level postharvest technology ·Appropriate drying method finding ·Dissemination of the above method 2-5-4. Improvement of rice processing system											F/M (Team)
 Appropriate processing system finding Dissemination of the above system by seminar 2-6-1. Economic analysis of farming operations 											F/M (Team)
On farm survey of several farm operations Dissemination of the above result by News letter on Farm Management 2-6-2. Improvement of farm machinery management system											F/M
Operator trainingFarmers TrainingFarm Machinery Monitoring on farm			4.00				i de la companya de l				F/M F/M F/M (Team)
2-6-3.Produce and utilization of farm machinery management manual Manuscript making of a part of News Letter on Farm Management Farm Machinery Management Manual Making Farm Machinery Management Manual Distribution											F/M F/M (Team)

: Intensive

: Preparation & Follow up

ACTIVITY PLAN OF FARM MANAGEMENT

	ACTIVIT			r FAI			JEME	:NI					
	TSI ACTIVITIES	19	399		20	00	- a		20	01	<u> </u>	Cross Section	Remarks
2	Improvement and dissemination of location specific technologies for a Ric	:e-baser	d Farmin	g Systen	n in the i	Project s	ub-site	<u> </u>	L	·			
2-7	Improvement of farm management efficiency											· · · · · · · · · · · · · · · · · · ·	
2-7-1	Analysis of farming business and management												
1	Market study on rice, field and vegetable crops (Study2)												
2	Study on the involvement of women in farming	İ											
3	Survey on other farming potentials at CIP	_											ĺ
	On-farm Demonstration		 			l			ļ				
1	Rice demonstration	سحبر									-	ali sections	<u> </u>
2-7-3	Improvement of seed production system												rice crop
1	On station Registered seed production		-				حصما		-		-	Agro/FM/FMech	ľ
2	Supervision of Registered seed growers at CIP		_				-	عصطإ			 	į	1
3	Seed utilization survey						1	1					rice crop
4	Formulation of CIP seed production and distribution scheme	1	_										-
2-7-4	Integration of rice based farming system												
1	Assessment of developed rice-based technologies		 			77,67					-		İ
	Introduction of backyard vegetable production, upland cultivation &						ļ.,,,,	<u> </u>				FM/Agro/Fmech	l .
2	livestock production										<u> </u>	rwagtorrinech	
	Improvement of practical management skills										1	İ	Cooperators on On-Farm demo &
1	Introduction of daily farm record keeping	-		}									verification trials
2	Formulate annual farmers' farm plan	L		<u> </u>	<u> </u>				<u> </u>	<u> </u>		<u> </u>	on rice
2-8	Enhancement of extension activity in order to disseminate appropriate tech	nnology	·	T					T	τ	T	, 	
2-8-1	Staff Development Training											All BIAPP Sections	l
1 2	Develop annual training plan and design Develop training materials		<u> </u>			1					ļ	Concerned Sections	
1												Concerned Sections	İ
3	Conduct trainings including evaluation and post-training activity								F	F		Contented Sections	
2-8-2	Training and Information Materials Production				1] .	1
1	Develop annual plan of training programs on rice-based farming system technologies		1		1							All BIAPP Sections	
2	Develop training design / manuals and conduct training including		1					1				Concerned Sections	
	evaluation and post-training activity		+	<u> </u>	_		-	 	-	† T	1		
3	Produce information and instructional print / video materials									7		Concerned Sections	
4	Conduct forums / technobriefings			t					L			Concerned Sections	<u> </u>
4	Enhancement of training Training of Agricultural extension workers of LGU		T	T	т	т	т		T	1	1	r	T
4-1		Serine de	especial de la companya de la companya de la companya de la companya de la companya de la companya de la compa	agrya. Older	nesska Mon o	Side and other and	Springer Company		l			All BIAPP Sections	
1	Develop annual training plan and design						T]			1	Concerned Sections	
2	Develop training materials	- TORK SECTION AND	**************************************	100000000	Angel Property Land	and waste	- Carried Control					Concerned Sections	
3	Conduct trainings including evaluation and post-training activity	├	+	ļ	-		-		-		_	Concerned Sections	1
4-2	Training of key farmers in Bohol	-	1000722		1	erica year, ay,				l	}		in aniichi
1	Develop annual training plan and design	Table on sign	ACCEPTED TO SAID	28494 J - 1849 N.A.	- Contraction	T TOTAL	residente residente (sea		1			All BIAPP Sections	In collaboration with ATI and LGI
2	Develop training materials	ero serve		Supply to the part	Walter Branch Branch	eterántoponas,	Producera September					Concerned Section	
3	Conduct trainings including evaluation and post-training activity											Concerned Section	
	Present desirable successful and production and broad sections	L	<u> </u>	٠	L		1					7 - 537501160 0608011	

資料 2 アドバイザリーコミッティー出席者一覧

ATTENDANTS OF THE ADVISORY COMMITTEEE MEETING

Venue: ITCAF, Director's Conference Room, DA

October 7, 1999, 10:00am -12:00pm

Cecilia Q. Astilla Officer-In-Charge, Office of the Secretary, Project Development

Service (PDS), Office of the Service Director, DA

Adamar A. Estrada Project Development Officer III, Special Projects

Coordination and Management Assistance Division, DA

Marilyn T. Maestrado - ditto --

Cristy P. Polido Senior Agriculturist, DA-PDS

L. Bondoc DMO III, DA

Susana V. de Guzman Project Development Officer II, Project Packaging and

Resource Mobilization Division, PDS, DA

Ricardo D. Oblena Asst. Regional Director, DA-Regional Office No.7

Eddie A. Digaz Officer-In-Charge/Project Manager, NIA-BHIP-II

Santiago P. Gorospe, Jr. Department Manager, NIA-PDI

Leonardo E. Baute Division Manager, NIA-SMD-CO

Florentino R. David Manager, Operation Div., NIA-Region 7 & 8

Joy A. Castro Economic Development Specialist, NEDA

Aureliano B. Cahiles Provincial Agriculturist, LGU, Bohol

Eugene C. Cahiles Project Manager, BIAPP, BAPC

Kunihiro Tokida Chief Advisor, JICA Expert, BIAPP

Kazuo Subo Deputy Resident Representative, JICA

Tetsuji Iida Assistant Resident Representative, JICA

Osel Enriquez Program Liaison Officer, JICA

Takashi Fujimori JICA Expert, DA

Nobuyuki Samejima Managing Director, Agricultural Development Dept., JICA-HQ

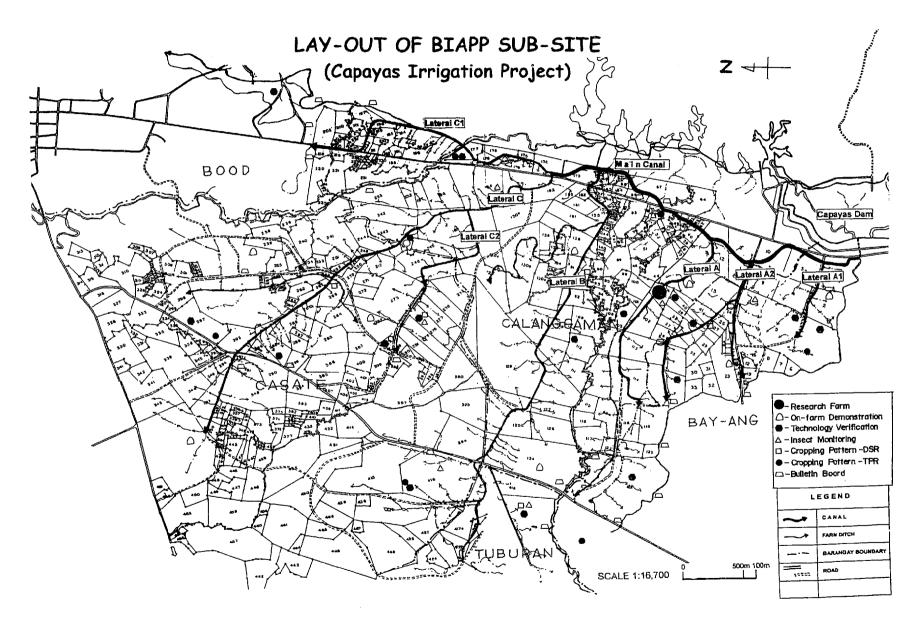
Chukichi Kaneda Technical Advisor, AICAF

Hisataro Horiuchi Professor, Tottori University

Toshiaki Ito Section Chief, Shiga Prefecture Office

Chiho Sameshima Section Chief, MAFF

Mutsumi Onishi Staff, Agricultural Development Dept., JICA-HQ



PASIUNANG TEKNOLOHIYA NGA GIREKOMENDAR PARA SA PROJECT SUB-SITE

BAHIN SA PAGTANUM UG HUMAY Verdon 2



Bohol Integrated Agriculture Promotion Project B-APC, Dao District, Tagbilaran City, Bohol

July 1999

1999 CROPPING CALENDAR

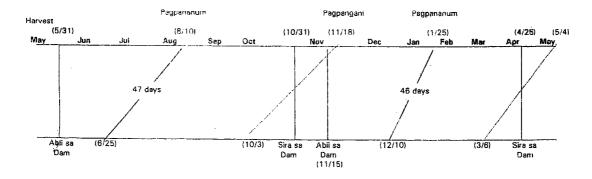
Schedule

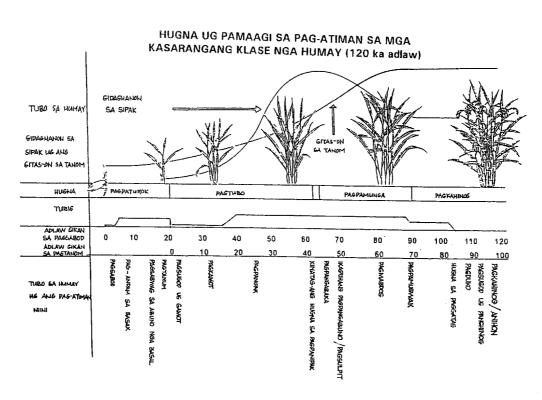
LOKASYON	TINGTANOM	PÄTUBIG SA BASAK	PAGTANOM	PAGPAHUBAS SA TUBIG SA BASAK
1. Downstream				
Lateral Canal C	Panuig	Mayo 31 - Hunyo 30	Hunya 25 Hulyo 25	Oktubre 24
Lateral Canal C1 Lateral Canal C2	Pangamihan	Nobyembre 15 – Disyembre 15	Disyembre 10 - Enero 10	Abril 11
2. Upstream		·	·	
Lateral Canal A Lateral Canal A1	Panuig	Hunyo 14 Hulyo 15	Hulyo 10 - Agosto 10	Nobyembre 7
Lateral Canal A2 Lateral Canal B	Pangamihan	Disyembre 1 – Disyembre 30	Disyembre 25 - Enero 25	Abril 25

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Panuig 1999

Pangamihan 2000





Pasiuna

Ang epekto sa El Niño phenomenon ug ang problema karon sa mga dangan ug sakit sa humay (sama sa ulod sa ubod, mata-mata, piangaw ug tungro) nakapakunhod sa ani didto sa BIAPP sub-site. Ang pagdagsang sa mga ug sakit nahitabo kay dangan wala magkadungan ang pagpananom sa mga maguuma didto sa sub-site. Bisan dili panahon sa ting-tanum, sila mitanum gavod' ug humav aron mahulipan ang ilang alkanse sa mi-aging ting-ani.

Kining maong edisyon para sa mga rekomendadong teknolohiya gimugna aron kahatagan ang mga mag-uuma sa BIAPP subsite ug mga bag-ong impormasyon mahitungod sa tukmang pama-agi sa pagtanum ug humay apil na niini ang pagsugyot sa mga rekomendadong klase sa humay, pagmaneho sa patubig nga may kalabutan sa cropping calendar, pagmaneho sa midagsang nga mga dangan ug sakit ug ang pagmaneho sa mga gimbuhaton human sa pag-ani sama sa pagtipig/hipos sa tipasi.

Mga Rekomendado nga Klase sa Humay

Base sa mga resulta sa gihimong pagtoon sa nagkalain-laing klase sa humay,inubanan sa pagpaniid sa ilang tinubu-an o barog sa basakan sa atong mga mag-uuma, duha lamang ka klase sa humay ang nagpakita nga dunay maayo ug malungtaron nga abot sukad pa sa mi-aging mga tingtanum. Ang maong mga matang makasugakod usab sa ataki sa mga dangan ug sakit sa humay:

ALA (PSB Rc 18)

Kasagaran nga Abot

1995 Pangamihan 4,895 kilos kada ektarya 122 ka sako kada ektarya

1996 Panuig 4,930 kilos kada ektarya 123 ka sako kada ektarya

1997 Pangamihan 4,812 kilos kada ektarya

120 ka sako kada ektarya

-80-

1999 Pangamihan 4,700 kilos kada ektarya 118 ka sako kada ektarya

Kinaiya sa Tanom

Gitas-on:	102 sentimetros
Gidaghanon sa uhay matag	
puno-an:	13
Gidaghanon sa tipasi matag	
uhay :	74
Timbang matag 1,000 nga	
tipasi :	26.5 ka gramos
Himsog nga tipasi matag	
uhay :	78 porsyento
Kagulangon:	120 ka adlaw
	gikan sa
	pagpugas

Reaksyon ngadto sa Sakit

Mata-mata	Makasukol
Tungro	Kasarangan nga makasukol
Bakteryang Mopalaya sa	
Dahon	Makasukol

Reaksyon ngadto sa Dangan

Ulod sa Ubod	lgo-igo nga
	makasukol
Lipis-lipis	Makasukol
Berdeng bunhok	lgo-igo nga
	makasukol

JARO (PSB Rc 32)

Kasagarang Abot

1996	Panuig	5,015	kilos	kada	ektarya
		125 ka	sako	kada	ektarva

1997 Pangamihan 3,573 kilos kada ektarya. 89 ka sako kada ektarya

1999 Pangamihan 4,132 kilos kada ektarya 103 ka sako kada ektarya



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to cut rice rice by ₱2 a kilo

To cushion impact of oil, fare hikes

By BRENDA PIQUERO TUAZON

the price of rice sold by the National Food Authority (NFA) be reduced by as much as P2 per kilo to help cushion the impact of the recent oil price in-creases and the impending transport fare ĥike.

This means that the current selling price of NFA rice pegged at P14.60 per kilo will now be sold at P12.60.

The Chief Executive issued the order following consultations with

President Estrada his economic advisers, ordered yesterday that Secretary Edgardo Angara of the Department of Agriculture (DA), and NFA Administrator Eduardo Nonato Joson.

Mr. Estrada stressed that the NFA buying price for palay will remain the same despite the cut in the agency's selling price for rice, to ensure that farmers continue to get the best rates for their produce.

Earlier yesterday on his program JEEP ni Erap: Ang Pasada (Tum to Page 8, col. 1) ng Pangulo, the President said the proposal to bring down the price of NFA rice were among the measures discussed by his Cabinet to cushion the impact of the rise in oil prices on poor consumers. The President immediately approved the proposal after the program.

"Dahil sa marami tayong aning bigas ngayon, para naman masyadong maapektuhan ang masang ating kababayan, kung maari ay ibaba ang presyo ng bigas hanggang dalawang piso per sa isang kilo (Because of our bumper harvests, we can bring down the price of NFA rice by \$2 a kilo so that the masses will not be heavily burdened by the oil price increases)," the President said on the program aired nationwide by the People's Television Network Inc. (PTV-4), and Bureau of Broadcast Services-Radyo ng Bayan.

JEEP ni Erap is also aired over dzMM and the ABS-CBN Cable News Network.

Angara noted that rice consumption eats up a substantial portion of the price index used to determine the inflation rate.

On the same program, Angara said the country's agricultural modernization program conting ues to yield positive with results. bumper harvests expected in rice and corn this year.

He reported that the country's buffer stock for rice is good for 120 days, and corn for 30 days.

The Philippines, Angara, said, is expected to produce its highest rice yield -12 million metric tons - this year.

"Next year konti na lang ang ating imports (Next year we will significantly reduce our imports of these food staples)," he said.

Angara also assured the public that the country's sugar supply remains stable.

These positive developments, according to the President, is expected to help minimize the impact of the recent round of oil price increases and impending fare hikes on poor consumers.

Mr. Estrada noted that he has also ordered wage and productivity boards nationwide to speed up their study on liter, compared with proposed pay ad- Bangkok at a rate justments.

Secretary Bienvenido Laguesma of P1.42. the Department of Labor and Employment, who also guested on JEEP ni Erap, said the wage boards in the Cordillera Administrative Region and Southern Mindanao Senate President, have already com- noted that the oil pleted their evaluation on proposed wage increases.

He added wage boards in three more regions, including Metro Manila will finish its der a deregulated work by mid-Octo- industry. ber.

gram, Secretary petition and as a re-Mario Tiaoqui of the sult of government Department of En- appeals to oil comergy said the recent panies, the prices of round of oil price adjustments is a global phenomenon that diesel and liquefied affects not only the Philippines but have been cut.

nearby countries as well because of the production cutback imposed by the Organization of Petroleum Exporting Countries (OPEC).

He noted, however, that compared to other Southeast Asian countries such as Thailand and Singapore, prices of petroleum products here remain relatively low-

Tiaoqui pointed out for, instance, that Manila raised diesel prices last month by 21 centavos per liter, compared to Bangkok. which increased the price of the same product by 98 cen-

Premium gasoline, on the other hand, increased by an average of only 65 centavos per equivalent to \$1.20 and Singapore,

Tiaoqui said the comparatively low oil price increases in the Philippines is one of the positive results of deregulating the oil industry.

Angara, a former price adjustments would have been higher if the old automatic pricing scheme was employed instead of the existing practice un-

Tiaoqui noted On the same pro- that because of comsocially sensitive products such as petroleum prices

Low-cost homes

President Estrada, renewing his commitment to proaffordable vide homes to low-income families, disclosed yesterday that he had asked the Monetary Board (MB) and private banks to widen sources in home financing and overhaul the financing system to bring down interest rates for socialized hous-

President Estrada said he would push for the construction of 150,000 low-cost housing units next year as part of his program to build a total of one million socialized housing units during his term which ends in 2004.

The President envisions a socialized housing program where units will sell for as low as ₱145,000. Low-cost homes will be sold between ₱225,000 **P**325,000.

Chairman Karina David of the Housing and Urban Development Coordinating Council (HUDCC) assured Council the President that funds for the 150,000 low-cost housing units have been included in the proposed budget for the next fiscal year.

President Estrada said the construction of these socialized housing units would not have any government guarantee. Private developers will shoulder any losses they incur, he added.

In the past, he said, some developers would build houses registered to

fictional tenants, and then charge the costs to the government.

As part of his pump-priming program for building socialized housing units, the President said private banks would be involved. The program will have better terms of payment, including provisions for restructuring loans and an overhaul of the financing system so long-time tenants can have a better chance to pay their obligations.

He said that banks have cooperated with him in this program, scaling down housing interest rates from a high of 24 to 29 percent to just 13 percent.

As part of his propoor plans, the President said he would provide housing units to all police personnel before the end of his term in 2004. "I am confident we can do this," he said.

Despite limited resources in the past year, the President said that the government managed to build housing units to serve 90,000 families.

"With our budget for fiscal year 2000," the President said. "we can build a minimum of 150,000 houses."

David appeared with the President in the weekly "JEEP ni Erap: Ang Pasada ng Pangulo.