- 10. To exempt Japanese nationals from customs duties, internal taxes and another fiscal levies which may be imposed in the Republic of Indonesia with respect to the supply of the products and the services under the verified contracts.
- 11. To accord Japanese nationals whose services may be required in connection with the supply of the products and the service under the verified contract, such formalities as may be necessary for their entry into the Republic of Indonesia and stay therein for the performance of their work.
- 12. To provide the space necessary for such construction as temporary offices, working areas, stock yards and others.
- 13. To bear all expenses, inclusive of Value Added Tax in the Republic of Indonesia other than those to be borne by the grant aid, necessary for the construction of the facilities as well as for the transportation and installation of the machinery and equipment.
- 14. To maintain and use properly and effectively the facilities constructed as well as equipment, provided under the Grant.
- 15. To assign personnel according to the proposed Staffing Plan for the Project.
- K.T.

MINUTES OF DISCUSSION ON THE DRAFT REPORT OF THE BASIC DESIGN STUDY ON THE RICE PEST AND DISEASE FORECASTING AND CONTROL PROJECT PHASE III IN THE REPUBLIC OF INDONESIA

In response to the request of the Government of the Republic of Indonesia for Grant Assistance for the Rice Pest and Disease Forecasting and Control Project (hereinafter referred to as "the Project"), the Government of Japan decided to conduct a basic design study on the Project and entrusted the study to the Japan International Cooperation Agency (JICA). JICA sent to the Republic of Indonesia the team headed by Mr. Kanji Tamagawa, Deputy Director of Plant Protection Division, Ministry of Agriculture, Forestry and Fisheries from 21st December, 1986 to 27 th January, 1987.

As a result of the study, JICA prepared a draft report and dispatched a mission to explain and discuss it from 25th March to 3rd April, 1987.

Both parties had a series of discussions on the Report and agreed to recommend to their respective Governments that the major points of understanding reached between them, attached herewith, should be examined towards the realization of the Project.

Jakarta, 1st April, 1987

Mr. Kanji Tamagawa Team Leader Basic Design Study Team Japan International Cooperation Agency

Dr. Ir. Sadji Partoatmodjo for Director General of Food Crops Agriculture, Ministry of Agriculture

ATTACHMENT

- 1. The Indonesian side had agreed in principal to the basic design proposed in the Draft Final Report and appropriate alteration agreed by both parties during the discussions will be incorporated in the Final Report.
- 2. The Indonesian side had understood Japan's grant aid system and both parties had confirmed that the Government of the Republic of Indonesia will take necessary measures as ANNEX I upon the execution of the grant aid to the Project by the Government of Japan.
- 3. Both parties had confirmed that the Final Report (10 copies in English) will be submitted to the Government of the Republic of Indonesia in June, 1987.

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ANNEX I

Necessary measures to be undertaken by the Government of the Republic of Indonesia

- 1. Work Related to Construction
 - a. Improvement of the sites for construction of facilities
 - b. Provision of electric power, telephone circuits, water service piping, drainage canal and other ancillary facilities necessary for the facilities within respective sites
 - c. Supply of temporary electric power for construction except six locations, (Waleurang. LUWU; Keumala, PIDIE; Peureulak, ACEH TIMUR; Alung Selatan, LAMPUNG UTARA; Gadingrejo, LAMPUNG SELATAN; Belitang, OKU)
 - d. Outdoor facilities (entrance gates, fencing, planting)
 - e. Construction and/or improvement of the access road and bridge to the proposed construction site
- 2. Provision of Convenciences Related to Construction
 - a. Tax exemptions and Provision of conveniences in making entry and exit to and from the country and during sojourn for organizations and individual persons of Japanese nationality who shall engage in the project
 - b. Tax exemptions and provision of conveniences in customs clearance formalities for construction equipment and materials, laboratory equipment and others, which shall be brought into Indonesia for the implementation of the project
 - c. Acquisition of the building permit prior to commencement of construction
 - d. Securing of sites for temporary office, working area, equipment and construction materials yard, etc. necessary for the construction work
- Proper maintenance and management of facilities and equipment which shall be constructed and/or provided under the grant aid.
- Personnel assignment according to the proposed staff plan for proper and effective implementation of the Project.
- 5. Budget for other necessary expenses inclusive of Value Added Tax in accordance with the implementation schedule for the Project.

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APPENDIX III

LIST OF PARTICIPANTS

MEMBERS OF THE BASIC DESIGN STUDY TEAM

- 1. Kanji Tamagawa Team Leader
- 2. Yoshihide Teranishi Project Coordinator
- 3. Hiroshi Kikuoka Architectural Planning and Coordination
- 4. Arata Miyahara Architectural Design
- 5. Yasuaki Ohno Structural Planning
- 6. Yoshimitsu Okunaga Food Crop Protection Equipment
- 7. Kouichirou Tsutsumi Structural Engineering

Deputy Director Plant Protection Division Ministry of Agriculture, Forestry and Fisheries

First Basic Design Study Division Grant Aid Planning and Survey Department Japan International Cooperation Agency

Matsuda, Hirata & Sakamoto Architects, Planners & Engineers, Inc.

Matsuda, Hirata & Sakamoto Architects, Planners & Engineers, Inc. Matsuda, Hirata & Sakamoto Architects, Planners & Engineers, Inc.

Matsuda, Hirata & Sakamoto Architects, Planners & Engineers, Inc.

Matsuda, Hirata & Sakamoto Architects, Planners & Engineers, Inc.

APPENDIX IV

LIST OF PARTICIPANTS

MEMBERS OF THE DRAFT REPORT STUDY TEAM

1. Kanji Tamagawa Team Leader Deputy Director Plant Protection Division Ministry of Agriculture, Forestry and Fisheries

- 2. Hiroshi Kikuoka Architecture
- 3. Yoshimitsu Okunaga Food Crop Protection Equipment

Matsuda, Hirata & Sakamoto Architects, Planners & Engineers, Inc.

Matsuda, Hirata & Sakamoto Architects, Planners & Engineers, Inc.

SCHEDULE OF BASIC DESIGN STUDY TEAM IN INDONESIA

Abbreviation

K. Tamagawa : K.T Team Leader Y. Teranishi: Y.T Project Coordinator H. Kikuoka : PM A. Miyahara : A : SP Y. Ohno Y. Okunaga : CP K. Tsutsumi : SE December 1986 (1)21stArrival in Jakarta (Y. Teranishi Project Coordinator, PM, A, SP, CP, SE) - Team Meeting Embassy of Japan, JICA Jakarta office (2)22nd - Courtesy call and discussions regarding study schedule DFCP - Meeting with L/E Dr. NASU and Mr. Kagai adviser (3) 23rd DFCP - Submission and explanation of Inception Report - Discussion of schedule of Field Survey DGFCA - Courtesy call - Team Meeting (4) 24th SEKNEG (Y. Teranishi, PM, A) - Courtesy call and explanation of the Project DFCP - Discussion of schedule of Field Survey BAPPENAS (Y. Teranishi, PM) - Courtesy call and explanation of the Project

- Team Meeting

JICA Jakarta office - Discussion of Field Survey schedule

		(5)	25th	Departure fo - Team Meeti	or Tokyo (Y. Teranishi) ing
		(6)	26th	DFCP - Discussion	n of Field Survey schedule
				- Team Meeti	Ing
		(7)	27th	DFCP (A, SP, - Discussion	, SE) h of Field Survey
÷.		•		DFCP (PM, CF - Meeting wi	?) ith Mr. Kagai adviser
				- Preparatio	on for Field Survey
	·	(8)	28th	PM, A, SP CP, SA	JAKARTA - UJUNGPANDANG
		(9)	29th	PM, A, SP CP, SA	UJUNGPANDNG - MAROS
	12				- Survey of MAROS FCPC site
				PM, A	MAROS - PALOPO - Survey of LUWU FL site
	·	·		SP, SE	MAROS - BONE- BULUKEMBA - UJUNGPANDANG - Survey of BONE FL site - Survey of BULUKEMBA FL site
				CP	MAROS - UJUNGPANDANG - Collection of data at MAROS FCPC
		(10)	30th	PM, A	PALOPO - UJUNGPANDANG
				SP, SE, CP	UJUNGPANDANG - MAROS - UJUNGPANDANG - Survey of MAROS FCPC
				PM, A, CP SP, SE	UJUNGPANDANG - JAKARTA
					- Team Meeting
		(11)	31th	PM, A, CP	JAKARTA - MEDAN - Survey of MEDAN FCPC site

.

JANUARY 1987

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(12)	1st	PM, A, CP SP, SE	MEDAN - Survey of MEDAN City area
(13)	2nd	РМ, А, СР	MEDAN - AIR PUTIH - MEDAN - Survey of ASAHAN FL site - Survey of DELI SELDANG FL site
		SP, SE	MEDAN - SIDINPAN - Survey of TAPANULI UTARA FL site
(14)	3rd	CP	MEDAN - PARAPAT - Collection of data at MEDAN FCPC
		PM, A	MEDAN - PARAPAT ~ Survey of SIMALUNGUN FL site
		SP, SE	SIDINPAN - PARAPAT - Survey of TAPANULI SELATAN FL site
(15)	4th	PM, A, CP SP, SE	PARAPAT - Analysis of data
			- Team Meeting
(16)	5th	PM, A, CP SP, SE	PARAPAT - MEDAN
		PM, A, CP	MEDAN - BANDA ACEH - Suvey of D. I. ACEH SUB-FCPC site
	·	SP, SE	MEDAN – PALEMBANG
(17)	6th	PM, A	BANDA ACEH - MEULABOH
		SP, SE	PALEMBANG - AMPERA - Survey of PALEMBAN FCPC site - Survey of MUSI BANYU ASIN FL site
		CP	BANDA ACEH - Collection of data
(18)	7th	PM, A	MEULABOH - BANDA ACEH - Survey of ACEH BARAT FL site
		SP, SE	AMPERA - LAHAT - Survey of OKU FL site
		CP	BANDA ACEH - MEDAN - Collection of Data

	(19) 8th	PM, A	BANDA ACEH - LANGSA - Survey of PIDIE FL site
· .		SP, SE	LAHAT - PALEMBANG - Survey of LAHAT FL site
		CP	MEDAN Collection of data Analysis of data
· .	(20) 9th	РМ, А	LANGSA - MEDAN - Survey of ACEH TIMUR FL site
		SP, SE	PALEMBANG - Collection of Data at PALEMBAN FCPC
		CP	MEDAN - PALEMBANG - Collection of Data at MEDAN FCPC
	(21) 10th	PM, A	MEDAN - KUTACANE - MEDAN - Survey of ACEH TENGGARA FL site
		CP	PALEMBANG - Collection of Data at PALEMBANG FCPC
		SP, SE	PALEMBANG - JAKARTA
	(22) 11th	PM, A	MEDAN - JAKARTA
		CP	PALEMBANG - JAKARTA
		SP, SE	JAKARTA - Analysis of Data
	(23) 12th	PM	JAKARTA - Discussion with DFCP
		A, CP SP, SE	- Analysis of results of site survey
	(24) 13th	PM	JAKARTA - Preparation of intermediate Report for condition of sites survey
		A, CP	JAKARTA - BANDA LAMPUNG - Survey of LAMPUNG UTARA FL site
		SP, SE	JAKARTA - BANJARMASIN

	. *	
(25) 14th	PM	JAKARTA - Collection of Data at DFCP
	A, CP	BANDA LAMPUNG -Survey of LAMPUNG SELATAN FL site
	SP, SE	BANJARMASIN - Survey of BANJAR BARU FCPC site
		- Survey of BANJAR FL site
(26) 15th	РМ	JAKARTA
		- Collection of Data at DFCP
		- Analysis of data
	A	BANDA LAMPUNG - JAKARTA
	CP	BANJARMASIN
	SP, SE	BANJARMASIN - Survey of HULU SUNGAI SELATAN FL site
· .	an a	- Survey of HULU SUNGAI UTALA FL site
(27) 16th	РМ	JAKARTA - Discussion with DFCP
		(Personnel Management and Counter Budget etc.)
	SP, SE, CP	BANJARMASIN - Survey of HULU SUNGAI TABU FL site
		Team Meeting
(28) 17th	PM	JAKARTA
		- Discussion with DFCP (Organization, Function and Activities and Equipment Detailes)
	SP, SE, CP	BANJARMASIN - JAKARTA
		JAKARTA JAL721 Tamagawa, Team Leader and Y. Teranishi, ject Coordinator)
		- Team Meeting
(29) 18th		- Analysis of Data
		- Team Meeting
		- Study of construction conditions
(30) 19th		DFCP Meeting with Dr. Nasu
		Collection and Analysis of data

 (32) 21st K.I, Y.T, PM - Visit to Embassy of Japan and JICA Jakarts office Visit to DGFCA (Courtesy call and Discussion regarding the Project) Preparation of Minutes of Discussions A, SP, SE, CP - Study of building locations and floor plants of Preparation of counter budge DFCP Discussion of draft Minutes of Discussion A, SP, SE, CP - Discussion of building locations and floor plants with DFCP (34) 23rd DFCP Signing and exchange of Minutes of Discussion K.T, Y.T, FM JAKARTA - PALEMBANG Survey of PALEMBANG FCPC site CP, SP, SE DECP Collection and Discussion of Data (35) 24th K.T, Y.T, PALEMBANG Survey of OKU FL site CP, SP, SE DFCP Analysis of Data (36) 25th K.T, Y.T PALEMBANG - JAKARTA - JATISARI PM, A Visit of PFC construction site CP, SP, SE JAKARTA CP, SP, SE CP, SE CP, SE CP, SE Site Site CP, SP, SE CP, SE CP, SE CP, SE CP, SE Site Site CP, SP, SE CP, SE CP, SE Site Site Site CP, SP, SE CP, SE Site Site Site Site CP, SP, SE CP, SE CP,			
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	(38) 27th	Arrival in Tok	
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APPENDIX VI

SCHEDULE FOR DRAFT REPORT OF THE BASIC DESIGN STUDY TEAM IN INDONESIA MARCH 1987

	1.1	
MA	RCH	1987

(1)	25th	Arrival in Jakarta (Kikuoka, Okunaga)
(2)	26th	JICA Jakarta office and Embassy of Japan - Courtesy call and submission of Draft Report
		DFCP - Coutesy call and submission of Draft Report
(3)	27th	- Team Meeting
(4)	28th	DGFCA - Discussion of Counter Budget
		DFCP - Explanation and discussion of Draft Report of Basic Design Report
		Arrival in Jakarta (K. Tamagawa Team Leader)
	•	- Team Meeting
(5)	29th	- Team Meeting - Prepalation of PL equipment list
(6)	30th	JICA Jakarta office and Embassy of Japan - Courtesy call
		DFCP - Meeting with Dr. Nasu Leader
		- Discussion of PL equipment details
		- Drafting of Minutes of Discussions
(7)	31st	Visit to PFC (Jatisari) construction site

APRIL 1987

(8)	1st	DFCP - Signing and Exchange of Minutes of Discussions
din 1999 S	191 <u>1</u>	- Report to JICA Jakarta office
(9)	2nd	- Analysis of Data
•		Departure for Tokyo GA872
(10)	3rd	Arrival in Tokyo

APPENDIX VII

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LIST OF INDONESIAN SIDE PARTICIPANT AND INTERVIEWERS FOR BASIC DESIGN STUDY

A. DGFCA, DFCP

1.	Ir. Suhaedi Wiraatmadja	Director General	Directorate General of Food Crops Agriculture (DGFCA)
2.	Ir. Syamsuddin Abbas	Secretary	DGFCA
3.	Dr. Ir. Sadji Partoatmodjo	Director	Directorate of Food Crops Protection (DGFCA)
4.	Ir. Soelbijati Soebrote	Director	Directorate of Programme Development
5.	Ir. Haryono Siswomihardjo	Head	DFCP (Pesticide Division)
6.	Ir. Suroto	Head	DFCP (Pest Observation and Forecasting)
7.	Ir. Ati Wasiati	Head	DFCP (Disease and Weed Control Division)
8.	Ir. Daryanto	Head	DFCP (Pesticide Division)
9.	Ir. Malyan Sukardi	Secretary	DFCP (Pesticide Commission)
10.	Ir. Joeli Hartono	Staff	DFCP (Disease and Weed Control Division)
11.	Ir. Bambang Suhario	Staff	DFCP (Disease and Weed Control Division)
12.	Ir. Herdradjat Natawidjaja	Staff	DFCP (Disease and Weed Control Division)
13.	Mrs. Utari Damiati	Staff	DFCP (Pesticide Division)
14,	Ir. Achamad	Head	MAROS FCPC

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15. Ir. Mad Rais Zauhari	Head	MEDAN FCPC
16. Ir. Sutarto Alimoeso	Head	BANJARBARU FCPC
17. Ir. Diran	Head	PALEMBANG FCPC
B. BAPPENAS		
1. Dr. Ir. Alirahman	Head	Bureau of Agriculture and Irrigation, National Development Planning Agency
2. Mr. Rusnadi Msc	Staff	Bureau of Agriculture and Irrigation, National Development Planning Agency
3. Mr. Amore Rio Sasongko	Staff	Bureau of Agriculture and Irrigation, National Development Planning Agency
C. SEKNEG		
1. Mr. Roharisani	Head	Sekretaris Negara

APPENDIX VIII

LIST OF INDONESIAN SIDE PARTICIPANT AND INTERVIEWERS FOR DRAFT REPORT OF THE BASIC DESIGN STUDY

1.	Dr. Ir, Sadji Partoatmodjo	Director	Directorate of Food Crops Protection (DFCP)
2.	Ir. Soelbijati Soebroto	Director	DGFCA Directorate of Programme Development
3.	Ir. Kasmo	Head	DFCP Sub-Directorate of Vertebrate and Storage Pest
4.	Ir. Daryanto	Head	DFCP Sub-Directorate of Pesticides
5.	Ir. Suroto	Head	DFCP Observation and Forecasting Division
6.	Ir. Ati Wasiati	Head	DFCP Disease and Weed Control Division

SUPPLEMENT

TABLE 1 Area Harvested, Production and Yield Rate of Food Crops

crops	1981	1982	1983	1984
paddy				
Area harvested(ha)	9,381,839	8,988,455	9,162,500	9,763,600
Production (ton)	32,774,176	33, 583, 677	35, 303, 100	38, 136, 400
Yield rate (t/ha)	3. 493	3.736	3, 853	3,906
Maize			· · · · ·	
Area harvested(ha)	2,955,039	2,061,299	3,002,200	3,025,400
Production (ton)	4,509,302	3,234,825	5,086,900	5,359,200
Yield rate (t/ha)	1.526	1.569	1,694	1.771
Cassava				
Area harvested(ha)	1,387,536	1,323,709	1,220,800	1,338,900
Production(ton)	13,300,911	12,987,891	12, 102, 700	14.205,300
Yield rate (t/ha)	0.96	0.98	0.99	1.06
Sweet potatoes				
Area harvested(ha)	274,905	219,655	280,200	279,000
Production(ton)	2,093,572	1,675,657	2,213,000	2,304,800
Yield rate (t/ha)	0.76	0.76	0.79	0.83
Peanuts				
Area harvested(ha)	507,954	461,338	480,500	523,300
Production(ton)	474,591	436,822	460,400	522,400
Yield rate (t/ha)	0. 0934	0.0947	0. 0958	0.0998
Soyabeans			н. 1919 - Алан Алан Алан Алан Алан Алан Алан Алан	- 、
Area harvested(ha)	809,978	607,788	639,900	837,800
Production(ton)	703,811	521,394	536,100	742,600
Yield rate (t/ha)	0. 08690.	0,0858	0. 0838	0.0886

SOURCE : Statistik Indonesia (1985)

TABLE 2 Area Harvested of Paddy by Province (ha)

			DA LIOATUCE (H9	
Province	1981	1982	1983	1984
1 7 0 7 11100	1001	1001		100,
D. I. Aceh	257, 393	255,645	270,232	270,134
Sumatera Utara	550,793	566,136	551,784	583,064
Sumatera Barat	280,547	299,902	324,879	336, 817
Riau	132,914	128, 195	135,350	141,848
Jamb i	142,725	154,107	163,289	165,614
Sumatera selatan	365,410	361,827	420,259	391,643
Bengkulu	68,785	76,426	85,127	84,221
Lampung	290,414	299,763	324,622	361,370
SUMATERA	2,095,981	2,142,001	2, 275, 542	2,334,681
D.K.I.Jakarta	16,558	14,106	9,601	9,738
Jawa Barat	1,944,531	1,797,745	1,832,110	2,012,602
Jawa tengah	1,415,449	1,321,263	1,316,356	1,473,123
D. I. Yogyakarta	151,934	142,044	136,848	151,794
Jawa timur	1,517,503	1,473,915	1,484,240	1,564,342
JAWA	5,045,975	4,749,073	4,779,155	5,211,599
Bali Bali	172,524	169,761	168,459	168,521
Nusa tenggra barat	239,945	245,101	231,765	251,136
Nusa tenggara timur	138,402	132,560	133,287	116,171
BALI, NUSA	550,871	547,422	533,511	535,828
Kalimantan barat	310,785	299,783	280,275	275,483
Kalimantan tengah	120,610	117,094	117,192	116,403
Kalimantan selatan	320,603	303,133	307,369	328,556
Kalimantan timur	97,301	91, 944	45,029	74,270
KALIMANTAN	849, 299	811,954	749,865	794,712
Sulawesi utara	64,202	76,799	73, 778	70,595
Sulawesi tengah	111,978	98,986	111,010	104,380
Sulawesi selatan	598, 364	509,283	580,453	647,757
Sulawesi tenggara	36,941	36,741	42,150	45,538
SULAWESI	811,485	721,809	807,391	868,270
Maluku	26,125	14,084	14,843	16,276
Irian Jaya	2,063	2,112	2,162	2,214
Maluku&Irianjaya	28,228	16,196	17,005	18,490
OUTER JAWA	4,335,864	4,239,382	4,383,314	4,551,981

SOURCE : Statistik Indonesia (1985)

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TABLE 3 Production of Paddy by Province (ton)

Province	1981	1982	1983	1984
D. I. Aceh	834, 888	867,466	945, 587	915, 133
Sumatera Utara	1,662,674	1,834,709	1,832,533	2,022,000
Sumatera Barat	1,029,912	1,131,448	1,292,885	1,353,778
Riau	264,696	297,469	321,488	328,796
Jamb i	396, 246	426,687	445,783	454,915
Sumatera selatan	944,085	968, 296	1,131,241	1,092,951
Bengkulu	168,601	214,519	250,553	247,038
Lampung	783,933	875,055	960,665	1,081,432
SUMATERA	6,085,035	6,615,649	7,180,734	7,496,043
D. K. I. Jakarta	52,064	49,235	32,991	34,724
Jawa Barat	7,287,196	7,431,497	7,770,246	8,527,634
Jawa tengah	5,761,440	5,774,064	6,101,259	6,903,615
D. I. Yogyakarta	550, 279	548,984	577,209	640,746
Jawa timur	6,878,791	7,051,258	7,146,592	7,593,607
JAWA	20,530,310	20,858,038	21,628,297	23,700,326
Bali	746, 334	734,755	738,906	758,831
Nusa tenggra barat	829,762	884,273	872,246	952,090
Nusa tenggara timur	247,223	275,775	301,940	257,780
BALI, NUSA	1,823,329	1,894,803	1,913,092	1,968,701
Kalimantan barat	611,837	632,818	627,662	587,008
Kalimantan tengah	219,632	222,523	215,923	209, 587
Kalimantan selatan	786,184	738,973	757,799	842,000
Kalimantan timur	179,563	185,005	95,069	141,320
KALIMANTAN	1,797,216	1,779,319	1,696,453	1,779,915
Sulawesi utara	189,062	257,258	267,733	262,638
Sulawesi tengah	234;439	237, 592	277,959	259,553
Sulawesi selatan	2,018,593	1,854,466	2,219,471	2,539,407
Sulawesi tenggara	64,779	71,437	95,793	105,450
SULAWESI	2,506,893	2,420,753	2,860,956	3,167,048
Maluku	27,688	13,881	18,984	19,823
Irian Jaya	3,705	4,234	4,590	4,590
Maluku&Irianjaya	31,393	18,115	23,574	24,413
OUTER JAWA	12,243,866	12,728,639	13,674,809	14,436,120

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SOURCE : Statistik Indonesia (1985)

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TABLE 4 Area Rate of Paddy by Province (kg/ha)

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				, .
Province	1981	1982	1983	1984
D. I. Aceb	3,244	3,393	3,499	3, 388
Sumatera Utara	3,019	3,241	3,321	3,468
Sumatera Barat	3,671	3,773	3,980	4,019
Riau	1,991	2,320	2,375	2,318
Jamb i	2,646	2,769	2,730	2,747
Sumatera selatan	2,584	2,676	2,692	2,791
Bengkulu	2,451	2,807	2,943	2,933
Lampung	2,699	2,919	2,959	2,993
SUMATERA	2,903	3,089	3,156	3,211
D.K.I.Jakarta	3,177	3,490	3,436	3,566
Jawa Barat	3,748	4,134	4,242	4,237
Jawa tengah	4,070	4,370	4,635	4,686
D. I. Yogyakarta	3,622	3,865	4,218	4,221
Jawa timur	4,533	4,784	4,815	4,854
JAWA	4,069	4,391	4,526	4,548
Bali	4,326	4,328	4,386	4,503
Nusa tenggra barat	3,458	3,608	3,763	3,791
Nusa tenggara timur	1,786	2,080	2,265	2,219
BALI, NUSA	3,310	3,461	3,586	3,674
Kalimantan barat	1,969	2,111	2,237	2,131
Kalimantan tengah	1,821	1,900	1,842	1,801
Kalimantan selatan	2,452	2,436	2,465	2,563
Kalimantan timur	1,845	2,012	2,111	2,003
KALIMANTAN	2,116	2,191	2,262	2,240
Sulawesi utara	2,945	3,350	3,629	3,720
Sulawesi tengah	2,094	2,400	2,504	2,487
Sulawesi selatan	3,374	3,641	3,824	3,920
Sulawesi tenggara	1,754	1,944	2,273	2,316
SULAWESI	3,089	3,354	3, 543	3,648
Maluku	1,058	986	1,279	1,218
Irian Jaya	1,796	2,005	2,123	2,073
Maluku&Irianjaya	1,112	1,118	1,386	1,320
OUTER JAWA	2,824	3,002	3,120	3,171

SOURCE : Statistik Indonesia (1985)

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TABLE 5 Rice Damage Area by Pest and Disease (1980 - 1985)

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(unit: 1.000ha)

d			· 		
average	6 8 8	22	173	13	212
1985	6.1	11	8 8 8	22	237
1984	30	17	(UN)	31	242
1983	116	17	126	ۍ ۲	168
1982	62	24	150	IJ	194
1981	5 8	25	276	9 1	199
1980.	79	31	227	O	230
year major pest and disease	ВРИ	Gall Midge	Stemborcr	Rat	Tungro

source:Directorate of food crop protoction (1985)

TABLE 6 Damage Area by Major Pest and Disease in 6 Provinces (1985)

(unit: ha)

			·			
all Indonesia	237.772	81.573	86.233	11.507	22.000	
South Kalimantan	2.894	52	823	S.	112	
Lampun	5,835	1.654	i , 146	797	. 1	
South sumatera	7.743	3,594	1.441	15	1.207	
D. I. Aceh	1,124	20,135	8.467	5.452	1	
North sumtera	44,413	9.151	3.115	186	l	
South sulawesi	6.112	616	3,635	175	2.769	
ycar major post and disease	Rat	B P H	Stemborcr	Gall Midge	Tungro	
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source: Directorate of food crop protection (1985)

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TABLE 7 Basic Concept of Facility Functions

FCPC: Planning of F/L experiments and collection of Data. Confirming experiments in CPC Preparation of Pesticide and Equipment for pest control. -Estimation of Yield Loss Establishment of Standards for Estimation of Establishment of Special Surveillance Tech. PFC: Establishement of basic thery and techniques Agricultural Service in Forecasting Technology -Yield Loss Monitoring
(0/U, F/L) Training & Instruction FCPC: Cooperation with Provincial Functional Role of PFC-DFCP, FCPC For designated pest DFCP/PFC FCPC PFC ---- FCPC, F/L FCFC yield loss ratio DFCP/PFC Experiments on chemical dosage Restricted Surveillance 0/U Practical data on yield loss Items to be strengthened in F/L, 0/U and integrated pest control District Agricultural (Rice variety, Cropping Experiment /L Practical O/U District Coordinator (Agr. Extension Worker) Agr. office Cooperation with ----- Data from------District station Monitoring from PPL technology) ļ. Office Monitoring -970 F/L: E/L Forecasting of designated ----pest by restricted rice variety and month of harvest other technical items Pest prevalence map Related to rainfall Nation/Provicen/FL area/ District Cropping calendar -Forecasting Conditions Items to be Identified Rice varieties Forecasting Unit District level (To be started from districts with F/L) (Provincial Ag. Ex. F/L: Regional Map. Yield Loss Ratio Pest forecasting Designated Pest review and control techniques Service) ECEC F/L: Technological Development Tests FCPC: Application of PFC techniques at the provincial level Basic technology studied by PFC Demonstrative field experiments Technical Training Restricted F/L area and/or districts Instruction of F/L Instructed by DFCP-PFC FCPC Weekly Report System Surveillance System Designation of PFC: () () () Pest Forecasting (1) Pest Surveil-Strengthening of and Control Monitoring Technology Technology lance and Technology (2)

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Each Facilities ų Proposed Functions and Activities ထ TABLE

Committee 3. Test Bridge (by Slanc). 4. Agency Tor Agricultural Bouca-tion, Training and Extension. 5. Agency for Agricultural. Miniarry of Agriculture 1. National Pestiside Commission. 2. National Plant Protection equipment. 2. Krrangement of accessary 3. Koviaing other agencies - SLPP (Agricultural training center) - BIP (Agricultural Informastatistics) - DFF (Provincial office of Agricultural Extension) Research and Development. 6. Press, Radio 2 TV station - BPS (Central Bureau of 1. Maintenance of Brigade 4: Cooperation with Univ. (mass communication) tion center) Cooperation with Other Agencies Rolding weekly meetings.
 Holding extra FLL
 meetings if necessary.
 Bolding O/U coordinator
 (District Representatives) Training in computer
 technology for FCPC staff.
 Molding FCPC meetings tyled Training of technical scaff for F/L and FCPC. (six months course for 20 persons with 6 Integrated Administrative Network instructors), Education and Training System а уеаг. Ξ, original O/U Duta, 2. Direvation of data analysis with F/L 3. Parcet, of FiL by SCPC in order to instruct and to check F/L mandgement of Weekly submission of data report to F/L and FCPC by 0/U.
 Monitoring of farm operaif necessary. 3. Pacrol of FCPC by PFC in order to instruct and 0/U tuite a year of more. check FCPC management of 2. Requesting original data F/L once a year of more. 1. Obcaining computerized 1. Review of F/L data and data from PCPC Monitoring and Fatrol System Data weekly submission of FCPC 2.0 bFCP/FCL.
 Data Marangement by province, F/L area and District with F/L area and District with 3. Parrol for pest.outbreak Installation of dial telephone. Facsimile and mobile labor-atory for the above. Immediate notification of pest outhreak in F/L area to FCPC. (urgently required). Transportation and Communication . Development of technology at the provincial level on the basis of F/L of the constants and report. Coordination and super-vision F/L executive Arrange executive programs in each FCPC & F/L. national level. 2. Development of technology at the national level 1. Peat forecasting by the office computer at the through the provincial personal computer in 1. Pest forecasting by provincial level. Fest Forecasting and Control Technology programs. level. è ÷ report to DFCP-PFC, F/L and other related agencies. Instruction and supervise experiments at F/Ls. Technical Function Planning a field study in cooperation with F/L.
 Kidentifying debigaated pest at the provincial & District levels. Programming the personal computer for date input and ordering FCPC to input Improving technology with ATA-162, etc. 4. Identifying designated pests at the national and provincial levels. Input of OU data into the personal computer and the data, Analyzing data with the office computer (NEC100) Pest Surveillance and Monitoring Technology ĥ ni ń Punction DFCP-PFC Drgan1zation FCPC

Cooperation and advising BPP and Agricultural Officer in Kecamaters on pest forcesting and control.
 Exchange of information with PPL (Extension Officer) and PPL (Extension Worker)

30 days training in BLPP.
 2. 90 Days special course at -BLPP.
 3. Provide opportunities for

attending University diploma course.

Extension. 3. Exchange of pest informations with KUD every District. 4. Cooperation with Universities. 5. Study of seed production farma.

Anstruction. 2. Instruction in specific technology for A type F/L. 9. Holding CvUV coordinator meeting every two useks.

tion in observation field. 3. Patrol of O/U by F/L in

pests in each district. 2 Pisid experiments on forcessing and control at the order of FCPC. 3 Specific study on verteb-rate or natural encades in A-type F/L.

2. Formulation of a regional map on pest prevalence, rice varieties, cropping

۶.L

samples. Teating of pest rearing.

calendar, etc. Preparation of pest

m ;

1. Enumeration and analysis

of O/U.data.

order to instruct and to check 0/U activities more

than twice a crop season.

1. Pest surveillance in allocated

area.

Khere the signs of pest outbreak are evident, sending samples to the F/L lamediately.

Obcalning farm data such as variety, other crops, fet-

Weekly reporting of duta at the order of the F/L.

Reporting of farm data to

the F/L. . .

cilizer, agro-chemical, etc. from PPM.

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2. Weekly F/L meetings. 3. Support service and pest control in allocated area. (Motorcycles required

communication between F/L O/U.)

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1. Support of Pest Brigade. 2. Advising of the District office of Agricultural

1. Nolding O/U meeting every Saturday for technical

Witcless communication (558)

1. Mapping of designated

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