

















APPENDIX

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(1)

1. Members of the Team

Name

Speciality/Position

Masami YASUNAKA

Katsuo SHOJI

Yoshimitsu YUKAWA

Yoichi KISHI

Takahiro KATO

Shigeyuki SHIOSE

Kiyomi MASAKI

Team Leader

Director, Laboratory of Structures Analysis Department of Structural Engineering National Research Institute of Agricultural Engineering Ministry of Agriculture, Forestry and Fisheries

Project Coordinator First Project Management Division Grant Aid Project Management Department, Japan International Cooperation Agency (JICA)

Irrigation and Drainage Engineering Nippon Giken Inc.

Dam and Watershed Management Engineering Nippon Giken Inc.

Structure Design Engineering Nippon Giken Inc.

Construction Planning/Cost Estimates Nippon Giken Inc.

Topographic Survey Supervision Nippon Giken Inc.

2. Survey Schedule

ю .	Date	Day	Work Schedule	Study Are
1	Apr.9	Thu,	Arrival at Manila (3 member of team)	<u></u>
2	10	Fri.	Courtesy call and meeting at Embassy of Japan, JICA and NIA	Manila
3	11	Sat.	Field investigation (Balnges dam site and storage area)	Tarlac
4	12	Sun.	Field investigation (Pangasan dam site and storage area)	Tarlac
5	13	Mon.	Field investigation, Preparation for topographic survey	Tarlac
6	14	Tue.	Field survey on ash deposition in watershed and dam storage area (Balnges dam) Commencement of topo-survey	Tarlac
7	15	Wed.	-ditto- (Balnges dam)	Tarlac
8	16	Thu.	-ditto- (Pangasan dam)	Tarlac
9	17	Fri.	Collection of data & information (meteorological and hydrological data)	Tarlac
10	18	Sat.	Data collection and analysis	Tarlac
11	19	Sun.	Arrival at Manila (I member of team) Field survey and data analysis	Tarlac
12	20	Mon.	Arrival at Manila (Team leader and 1 member of team) Courtesy call and meeting at Embassy of Japan and JICA Data collection on construction material and	Manila Tarlac
			commencement of farm economic survey	
13	21	Tue.	Courtesy call to NIA, and explanation of inception report	Manila
			Movement to Tarlac.	Tarlac
		\	Field investigation (Mangillog & Bulelatin dam and irrigation area)	
14		Wed.	Field investigation (Balnges dam and irrigation area)	Tarlac
15	23	Thu.		Tarlac
-2-71			(Pangasan dam and irrigation area and Tarlac river irrigation system)	
16	24	Fri.	Courtesy call and meeting at Region III office of NIA,	Talac
	·		Visiting to Gumain river irrigation project	
17	25	Sat.	Arrangement of collected data	Manila
			Discussion in team members	
			Sounding of proposed facilities foundation	Tarlac
18	26	Sun.	Discussion in team members	Manila
			Field survey of dam watersheds	
,			Sounding of proposed facilities foundation	
19	27	Mon.	Sign of minutes of discussions, Discussion with Embassy of Japan, JICA	Manila
			Explanation to NEDA regarding project formulation	
20	28	Tue.	Departure for Manila and arrival at Japan (Team leader and 1 team member)	Tarlac
			Field survey of dam watersheds	
			Collection of data and preparation of field report	
21	29	Wed.	Discussion in team members,	Tarlac
			Preparation of field report and additional data collection	
22	30	Thu.	Meeting with NIA, Explanation of field report,	Manila
			Reporting to Embassy of Japan and JICA	
23	May 1	Fri.	Data arrangement and analysis and additional data collection	Manila
24	2	Sat.	Preparation on departure, data arrangement	Manila
25	3	Sun.	Departure from Manila and arrival at Japan (4 team members)	

3. Members of Concerning Parties

Name

Speciality/Position

Japan International Cooperation Agency (JICA)

Mr. Kikuo Takeuchi

Mr. Katsumi Yoshida

Mr. Fumio Kikuchi

Mr. Sumio Oishi

Deputy Resident Representative JICA Philippine Office

Assistant Resident Representative JICA Philippine Office

Assistant Resident Representative JICA Philippine Office

JICA Expert in NIA Irrigation Planning

Embassy of Japan, Manila, Philippines

Mr. Yugo Matsuda

First Secretary

National Irrigation Administration (NIA)

Mr. Domingo T. Bautista

Mr. Isidro R. Digal

Acting Administrator National Irrigation Administration (NIA)

Manager Project Development and Designing

NIA

Name	Speciality/Position
	1 7 - 12 - 1 2 - 12 - 12 - 12 - 12 - 12 - 1
Mr. Clemente T. Alanano	Project Manager, WBIIP and
	Head, Dams and reservoir Section
	NIA
Mr. Nicocio T. Son Miguel	Regional Irrigation Manager
Mr. Nicasio T. San Miguel	
	Regional Irrigation Office III, NIA
Mr. Clemencio M. Salvador	Chief
	Planning and Investigation Sect.
	Regional Irrigation Office III, NIA
Mr. Honorio M. Encarnacion, Jr.	Project Manager
	Balog-Balog Multi-Purpose Project, NIA
	24
 Mr. Marcelino P. Manalo	Chief of Provincial Irrigation Office
	Tarlac, NIA
Mr. Alberto C. Cotaco	Chief
	Institutional Development Section and
	Coordinator of service area of WBIIP
	Provincial Irrigation Office, Tarlac, NIA

Mr. Danilo C. Cortez

.....

Chief O&M Dam, Reservoir Section of WBIIP, NIA

National Economic and Development Authority (NEDA)

Ms. Josefina U. Esguerra

Assistant Director Public Investment Staff

4. Minutes of Discussions

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MINUTES OF DISCUSSIONS

BASIC DESIGN STUDY ON

THE PROJECT OF MINIMIZING ASH-FALL DEPOSITION IN

WESTERN BARRIOS IMPOUNDING IRRIGATION IN

THE REPUBLIC OF THE PHILIPPINES

In response to the request from the Government of the Republic of the Philippines, the Government of Japan decided to conduct a Basic Design Study on the Project of Minimizing Ash-Fall Deposition in the Western Barrios Impounding Irrigation (hereinafter referred to as "the Project") and entrusted the study to the Japan International Cooperation Agency (JICA).

JICA sent to the Philippines the study team, headed by Mr. Masami YASUNAKA, Director of Laboratory of Structures Analysis, Department of Structural Engineering, Ministry of Agriculture, Forestry and Fisheries, and scheduled to stay in the country from April 9 to May 3, 1992.

The team held a series of discussions with the officials concerned of the Government of the Philippines and conducted a field survey at the study area.

In the course of discussions and field survey, both parties have confirmed the main items described on the attached sheets. The team will proceed to further works and prepare the Basic Design Study Report.

April 27, 1992

DOMINGO T. BAUTISTA Acting Adiministrator National Irrigation Administration (NIA)

MASAMI YASUNAKA Leader Basic Design Study Team JICA

(7)

ATTACHMENT

1. OBJECTIVES

The objectives of the Project are to take proper countermeasures to prevent functional disorder of dam intake facilities and reduction of dam storage capacity caused by ash accumulation in the dam storage areas.

2. PROJECT SITES

The Project sites are located in the Municipality of San Jose, Province of Tarlac. The dams and irrigation facilities of Balnges and Pangasan dams including its drainage areas were requested as the subject of study and project implementation.

3. IMPLEMENTING AGENCY

National Irrigation Administration (NIA) is responsible for the administration and implementation of the Project.

4. ITEMS REQUESTED BY THE GOVERNMENT OF THE PHILIPPINES

After discussions with the Basic Design Team, the following items were finally requested by the Philippine side:

- 1) Construction of structures for minimizing ash-fall deposition in the reservoirs,
- 2) Dredging of ash-fall deposits in selected area of the reservoirs, and
- 3) Installation of inclined intake facilities and sand discharge valves.

5. JAPAN'S GRANT ALD SYSTEM

- (1) The Government of the Philippines has understood the system of Japan's Grant Aid as explained by the Team.
- (2) The Government of the Philippines will take necessary measures, described in ANNEX I for smooth implementation of the Project, on condition that the Grant Aid Assistance by the Government of Japan is extended to the Project.

6. <u>SCHEDULE OF THE STUDY</u>

- (1) The consultant will proceed to further studies in the Philippines until May 3, 1992.
- (2) Based on the Minutes of Discussions and technical examination of the study results, JICA will complete the final report and send it to the Government of the Philippines by the end of July, 1992.

- ANNEX I: Necessary measures to be taken by the Government of the Republic of the Philippines in case Japan's Grant Aid is implemented
- 1. To secure the land or the right-of-way, including the disposal area, for the construction and to clear the sites as needed before the commencement of the construction,
- 2. To ensure the land or the right-of-way necessary for the construction of the temporary access road, stockyards, borrow areas, etc.,
- 3. To give necessary approval and assistance for the items of investigation that the consultant may require during the detailed design stage,
- 4. To secure permission in allowing transportation of vehicles, heavy equipment, machinery and construction materials on the existing national and rural roads,
- 5. To secure exemption on import duties and assume incidental expenses, and to take necessary procedures for customs clearance for materials, equiment and spare parts brought into the Philippines for the implementation of the Project,
- 6. To assume the Value Added Tax (VAT) which may be imposed on the purchase of Philippine supplies and materials for the Project,
- 7. To bear commission fees to the Japanese foreign exchange bank for the banking services based upon the Banking Arrangements,
- 8. To assist without delay to the Japanese nationals whose services may be required in connection with the supply of products and the services under the verified contract such facilities as may be necessary for their entry into and stay in the Philippines for the performance of their works,
- 9. To secure exemption for the Japanese nationals engaged in the Project from customs duties, internal taxes and other fiscal levies which may be imposed in the Philippines with respect to the supply of products and services under verified contracts,
- 10. To bear all expenses, other than those to be borne by the Grant Aid, necessay for the construction of facilities as well as for the internal transportation of the products and services under the Grant, and
- 11. To fully operate and maintain the project facilities for the benefit of the farmers concerned by providing adequate funds, staff and equipment to assure the effectiveness of implementation, operation and maintenance of the Project.

5. Country Data

5.1 Country Profile of Philippines

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1. Land Area

. *					
	· · ·	Land-Use Pattern		7	
		('00() na)		
		19		198	
Land Catego	<u>ery</u>	Area	%	Area	%
National (Total		30,000	100.0	30,000	100.0
Forest Area (To		17,025	56.8	13,750	45.8
Production Fo		9,756	32.5	8,376	27.9
Protection Fo		1,727	5.8	2,070	6.9
	ional Forests)		1		
	otection Forest	239	0.8	923	3.1
Open Land/Cu		4,297	14.3	1,138	3.8
Forest Range/	Pasture Land	934	3.1	934	3.1
Marshes		82	0.3	82	0.3
Mangrove Swa	mps	228	0.8	228	0.8
Non-forest Area		12,975	43.2	16,250	54.2
Crop Lands		7,488	25.0	7,507	25.1
Fishponds		176	0.6	229	0.7
Inland Water	1	231	0.8	231	0.8
Urban		1,986	3.6	1,400	4.7
Residential		3,994	13.3	6,863	22.9
					
Population					
		1,000 persons)	:	May 1, 1990	60,684.
1. E	2. Sex distribut				
+ *	Both sexes	(1,000 persons)		May 1, 1990	
1.1	Male (pen	cent)			50.
	Female (p				49.
and the second second	3. Regional dis	tribution			
	Philippines	: (1,000 persons)		May 1, 1990	60,685
		n Manila Area		-	
	(National C	Capital Region)			7,929
	CAR				1,146
11 A.	Region 1				3,551
a file graf	Region 2				2,341
an an taite. An an taite	Region 3				6,199
	Region 4				8,266
	Region 5				3,910
	Region 6				5,392
	Region 7				4,593
	Region 8				3,055
·	Region 9				3,159
					3,510
	Region 1				4,457
	Region 1 Region 1	2			3,171
11月1日 11月1日日	Keylon I	L			Jili
Incomes and Price		÷			
a shekara a		ily income (pesos)		1000	10 100
	Philippines	8		1988	40,408
	Urban			·	60,330
		tan Manila Area			79,314
1 BA BA	Rural				28,284
the Cast		rice index for all			
	items (1978			July 1991	-
	Philippine	S			592
28-3	Metropolita	an Manila Area			
		Capital Region)			651.
	(1 101100-1000 0				581

_				eseri i surritori. L		
4.	Economic Account				1000	
		1,	Gross national product (million p	esos)	1990	
			At current prices			1,132,404
			At 1972 prices	. Andre i		110,143
		2.	Gross domestic products			
			At current prices	1	1990	1,129,817
			At 1972 prices	and a second s	and the second	109,890
			Gross domestic product by indu	strial		and the state
			origin (million pesos at 1972 pi		1990	109,890
			Agriculture, fishery and forestry	a ta		29,620
			Mining and quarrying			1,603
	•		Manufacturing			27,259
			Construction			5,153
			Electricity, gas, and water			2,206
			Transport, communication and s	storage		5,977
	·		Trade			17,352
	n N		Finance and Housing		v	7,205
			Private Services			6,997
			Government Services	ni Ala an		6,519
5.	National Resources					
0.		1.	Classified and unclassified		1990	an a
	· · ·		land area (in hectares)			가지 않는 것 같아. 이 아이들은 것 같아. 같아.
			Alienable and disposable	1		14,117,729
	. 1		Forest Land	. t		15,882,271
	·.	2.	Area reforested annually (in hect	ares)	1989	131,404
		ž. 3.	Forest Destruction (in hectares)		1989	12,814
		4.	Production of logs, lumber,			12,01
		т.	plywood and veneer (1,000 m)	· · · · · ·	1990	and the second second
	·		Logs			1,916
			Lumber			449
			Plywood		en de la composición de la composición Composición de la composición de la comp	407
			Veneer		in the second	33
		5.	Mineral ore reserves (1,000 tone	lae	1989	34,508,227
		э.	Metallic	58) (S	1707	6,480,712
			Non-metallic			28,027,515
			Non-metanic			20,027,010
6	Actionality			an an british da s An		
6.	Agriculture	1	Production of agricultural crops		Crop yea)T
		1.	(1,000 m.t.)		1990	" 59,806
			Cereals		1970	14,173
			Palay			9,319
			Com			4,854
			Major crops			36,926
	94 1		Coconut		an a	11,940
			Sugarcane			16,908 2,913
	* ·		Banana			
			Pineapple			1,156 134
			Coffee			
			Other major crops			3,875
			Other crops			8,707
		2.	Value of production of		Crop yea	
			agricultural crops (million P)		1990	161,905
			Cereals	· .		109,242
			Palay			64,790
	:		Com			44,452
	. :		Major crops			64,250
			Coconut	1. A 1. A 1.		18,865
			Sugarcane		标志 法人的 人名法马尔	9,976
			Banana		9	7,224
			Pineapple	2	a share the second second	4,751
			Coffee	stration - 1		2,659
			Other major crops	i al tra ta ta ta	, page a parter	20,775

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			Other crops		32,865
	11 - 11 - 11 - 11 - 11 - 11 - 11 - 11	3.	Fish production (1,000 m.t.)	1990	2,503.6
			Commercial fishing	1990	700.6
	4		Aquaculture		
			Municipal fishing		671.1
		4			1,131.9
		4.	Value of fishing production		
			(million pesos)	1990	52,177.2
	a series		Commercial fishing		12,410.6
	1		Aquaculture		20,466.5
			Municipal fishing		19,300.1
	ete de				10,00011
1.	Foreign Trade				
		1.	Direction of external trade		
	(1,1) = (1,1	*•	(million US dollars)	1990	
				1990	0 10 0
			Exports		8,186.0
			Imports	· · · · ·	12,206.2
			Balance of trade (all countries)		(4,020.2)
		2.	Total exports (million US\$)	1990	8,186
			Ten principal exports	· :	1,123
	a		Copra		20
			Sugar		111
			Banana		149
			Logs and lumber		19
			Desiccated coconut		61
			Coconut oil		
	· • · · · · · · · · · · · · · · · · · ·		·		361
			Pineapples, canned		89
			Gold		90
			Abaca (unmanufactured)		16
			Copper concentrates		207
		3.	Imports by end use (million US\$)	1990	12,206.2
			Producer goods		11,350.7
			Machinery and equipment		1,531.2
			Unprocessed raw materials		2,357.1
	A second second		Semi-processed raw materials		6,924.2
	1		Supplies		538.2
					855.5
			Consumer goods		
	· · ·		Durable		81.7
			Non-durable		773.8
8.	Vital, Health and	Nutri			
		1.	Crude birth and death rates		
			(per 1,000 population)	1988	
	·		Birth rate		26.7
	1		Death rate		5.5
		2.	Number of registered marriages	1989	395,933
		<u>3</u> .	Number of registered live births	1988	1,565,372
		4.	Number of registered deaths	1988	325,098
				1990	1,733
	14	5.	Number of hospitals	1990	1,755
		6.	Number of government medical	*000	20.955
	a da		practitioners	1990	30,855
		7.	Number of health stations	1990	
			Barangay		10,151
			Rural		2,295
				a second a s	
9.	Education				
- •		1.	Number of government and		
	1.0	1.	private schools	SY 1989-90	
	1. The second				3,837
	, A.1		Pre-School		34,382
			Elementary		
	and the second se		Secondary		5,518
	an an gar sa da Tariban Tariban		Tertiary		1,755
		2.	Enrollment in government and		
			private schools (in thousand)	SY 1989-90	
			Pre-school		321.4

			(1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,	10 004 0
	• 11	Elementary	and the share a significant for	10,284.9
		Socondary	SY 1990-91	3,961.6 1,347.7
		Teniary	31 1990-91	1,547.7
10	Labor an Employmer	1		a da g
10.	Labor un Esimplo juio		1990	24,525
		Employed		22,532
		Unemployed		1,993
	2.		cent) 1990	64.5
	3.		r 1990	598,769
		Land-based		468,591
		Sea-based		130,178
	4.		1990	446,095
	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	Land-based		334,883
	•	Sea-based		111,212
11	Transmission and (a server and the server server and the server of the serve	(1,1,2)
11.	Transportation and C		1990	1 A A
	· 1	Passengers (1,000 persons)	1750	928.0
	17	Freight tones loaded (1,000 ml	a)	32.2
		Express tones loaded (1,000 m		16.8
	2		 A statistical sta	
	· · · · · · · · · · · · · · · · · · ·	by international carriers	1990	· · · ·
	1	Passengers carried, total		4,367,357
		Arrivals	the same	2,103,820
		Departures		2,263,537
		Flights, total		25,243
	3 .		1990	173
	4 - 1 - 1	National	a transformation and a department	86 87
	· · · · · ·	Private	1990	160,560.12
	4 .	Total Kilometers of road National	1970	26,272.03
		Local		134,288.09
	5.		1990	11,562
	_**	National government		7,201
	· .	Local government		4,361
	6.		1990	314,184.2
		National government	· · ·	235,519.67
		Local government		78,664.50
	7.	Coastwise shipping movement		· · · · ·
		at 26 major ports	1990	01 487
		Number of vessels entered	a the part of the	81,475
		Number of vessels cleared		81,391
	8	International shipping movemen		
		at Port of Manila	1990	2,896
	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	Number of vessels entered Number of vessels cleared		2,882
	9.		1990	399
	1			53,725
	1		1990	987,890
	• •			
12.	Energy and Water Re	sources		
•	1.			
		(MBFOE)	1990	120.6
		Indigenous energy		42.1
		Imported energy		78.5
	2.		· · · · · · · · · · · · · · · · · · ·	AZ 300
	1 <u>-</u>	(gigawatt hours)	1990	26,327
	3.			84,980
	1 · · · · · · · · · · · · · · · · · · ·	(thousand barrels)	1990 1990	26,326
	4.	Power generation		20,320
			 A state of the sta	
		(14)	

(14)

13.	Public Finance

15. I ubite I manee		57		
	1.	National Government Revenue		
		(million pesos)	1990	180,644.0
		Tax Revenues		150,316
		Taxes on income and profits		48,549
		Taxes on property		279
		Taxes on goods and services		50,745
		Taxes on international trade		00,710
		and transactions		46,005
		Other taxes		4,738
1		Non tax revenue		30,328
1	2.	National government expenditures		30,328
		(million pesos)	1001	AF1 307
		Economic services	1991	254,385
				64,344
		Social services		62,509
· · · · · · · · · · · · · · · · · · ·		National defense		26,010
·		General public service		25,982
		Net lending		777
		Debt service fund		74,763
	3.	Internal debt outstanding by	-	
		level of government (million P)	1990	254,447.5
		National government		243,793.4
		Local government		-
		Government corporations		6,625.8
		Monetary institutions		4,028.3
• • •	4.	Internal debt outstanding by		7,020,0
• •		period of maturity (million P)	1990	254,447.5
		Long term	1990	
		Medium term		20,634.2
				23,129.2
		Short term		210,684.1
14				
Money and Banki		1 1 1 1 1		~~~~
1	1.	Money supply (million pesos)	1990	89,012
	2.	Loans and investments outstanding		
		(million pesos)	1990	275,887.8
1		Commercial banks		243,992.0
		Rural banks		9,735.7
		Development banks		6,139.9
		Savings banks		16,020.2
	3.	Total assets and liabilities of		
·		Central Bank (million pesos)	1990	
		Total assets		444,893.2
		Total liabilities		442,977.4
	4.	Total assets and liabilities of		· · ·
		commercial banks (million pesos)	1990	:
		Total assets	1770	539,708.0
	5	Total liabilities		477,874.0
	5.	Total assets and liabilities of	1000	
		development banks (million pesos)	1990	11 000 0
· · ·		Total assets		11,251.3
		Total liabilities		9,323.5
			· · · · · · · · · · · · · · · · · · ·	

5. Country Data

(1)	Mt. Pinatubo Damaged Report	(17)
(2)	Summary of Cost Estimates of Infrastructure Programs	(19)
	/Projects for the Reconstruction and Rehabilitation	
	of Areas Affected by the Mt. Pinatubo Eruption and Its Effects	
		÷ .
3)	Government's Program for Rehabilitation and Recovery	(20)
·	by Foreign Funds (ODA)	
(4)	List of Communal Irrigation System Affected	(21)
	by Mt. Pinatubo Eruption, Province of Tarlac	A de spai
5)	Mt. Pinatubo Rehabilitation Program	(25)
U)		(20)
6)	Agricultural Rehabilitation and Development Program	(27)
	(Battan, Pampanga, Tarlac, Zambales, Nueva Ecija Provinces)	
(7)	Agricultural Rehabilitation and Development Program	(28)

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	(1) Mr. Pinatubo Damaged Report			((1/2)		
Particular	Bataan	Pampanga	Tarlac	Zambales	Total		
Affected	nin fallen an de la seconde de la seconda	4.7856.7.182.7.18379(1997)	1990-994-9999-994-999-994-996-996-996-996-99	ĸĸĸŔĊĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ	\$48.119.119.119.119.119.119.119.119.119.11		
No. of Farmers	8,503	18,878	13,890	15,709	56,980		
Total Area (ha.)	11,774	29,485	26,758	17,821	81,259		
1. Rice			-	, -			
- Area (ha.)	11,605	28,484	25,854	17,520	78,884		
a. Planted	6,890	9,819	4,355	521	21,585		
b. Not planted	4,715	18,665	21,499	16,999	57,299		
- Value loss (P)	16,516,064.00	255,544,355.00	67,883,655.00	9,150,250.00	349,094,324.00		
a) Actual	2,330,372	56,748,980	32,309,007	684,250	92,072,609		
b) Opportunity	14,185,692	198,795,375	35,574,648	8,466,000	257,021,715		
2. Vegetables	. :				· • : • .		
- Arca (ha.)	169	1,001	904	301	2,375		
- Value loss (P)	6,629,296	107,830,760	42,660,700	4,770,200	161,890,956		
a) Actual	-	10,529,160		60,200	10,589,360		
b) Opportunity	6,629,296	97,301,600	42,660,700	4,710,000	151,301,596		
3. Fruit Trees (area in ha.)		· ·			•		
a. Mango	255.00	190.75	15.96	726.00	1,187.71		
- Value loss (P)	7,944,000	58,773,750	5,746,320	84,584,000	157,048,070		
a) Actual	644,000				644,000		
b) Opportunity	7,300,000	58,773,750	5,746,320	84,584,000	156,404,070		
	$\delta_{\mu} = 0$				1. F		
b. Other Fruit Trees (assorted)	N	709.56	70.00	1,702.00	2,646.06		
- Value loss (P)	90,935,000	167,490,400	4,500,000	27,135,675	290,061,075		
a) Actual	-	-	-	07 195 (75	-		
b) Opportunity	90,935,000	167,490,400	4,500,000	27,135,675	290,061,075		
4. Livestock & Poultry (hds.)				. •			
No. of heads loss	32,066	716,677	15,136	13,861	777,740		
- Value loss (P)	5,511,080	176,822,180	4,985,640	15,523,050	202,841,950		
a) Production	4,740,180	86,677,340	4,705,640	13,712,050	109,835,210		
b) Facilities	770,900	90,144,840	280,000	1,811,000	93,006,740		
5. Fisheries		· · · ·					
- Area damaged (ha.)	2,649.97	3,817.00	82.40	580.52	7,129.89		
a. Brackishwater	2,648.53	3,767.00	•	526.40	6,941.93		
b. Freshwater	1.44	50,00	82.40	54.12	187.96		
- Value loss (P)	5,393,318	266,648,333	7,284,187	4,772,390	284,098,228		
a. Brackishwater	5,297,060	263,690,000	-	4,215,455	273,202,515		
b. Freshwater	96,258	2,958,333	7,284,187	556,935	10,895,713		

Source: Republic of the Philippines, Department of Agriculture, Region III San Fernando, Pampanga (17)

Particular		D	D	····	Tourtate	P 2 1.
		Bataan	Pampanga	Tarlac	Zambales	Tota
6. Small Scale IGP				· . · ·		
- Number		194	641	21	-	85
- Value loss (P)	2	251,000	996,250	32,638	-	1,279,88
7. L.E.A.D						· .
I.D.P. (No.)		5	1	3		1
- Value loss (P)	4	82,000	37,000	102,000	126,000	747,00
I.G.P. (No.)		.			9	agi go e a
- Value loss (P)	e galtar		. ·		602,920	602,92
8. SWIP			·:	a de la companya de la	• 	
- Number	en an tra	3	6	ang taon ang taong ta	4	ter er gren t
- Value loss (P)	. 1	20,000	890,000	75,000	300,000	1,385,00
Fotal Value Loss (P)			035,033,028.00	133,270,140.00	· · · ·	1,449,049,411.0
Otal Value Loss (P)	155,761	,738.00 1,	03.3,033,028.00		. •	
A) Actual	14,731	,770.00	512,671,903.00	44,788,472.00	22,068,810.00	594,260,955.0
B) Opportunity	199,049	,988.00	522,361,125.00	88,481,668.00	124,895,675.00	854,788,456.0
9. D.A. Facilities					· · ·	1 1 1 1
a. Sacobia Seed Fa	rm at Bamban	. Tarlac (as	corrected)			n en ser Setter se se
- Assorted fruit		,		7,855.00	• •	a nyaka sara
- Value of loss ((P)			745,650.00	* · .	14 - 14 L
- Assorted seedl	lings			60,500,00		
- Value loss				477,000.00	·	
- Infrastructures	/Building		÷	7 units		
- Value loss			·	655,000.00		
- Total value los	38			1,877,650.00		
b. Zambales	a 1		a de la compañía.			and the second second
- Soils laborator	-			30,000.00		_**
- Provincial nurs		- <u></u>		387,000.00		
- Farmer's pavill				150,000.00		
- Provincial offi		1		150,000.00		
- Nat'l Bangus B	÷ -	et,		75,200.00		
(Masintoc)	1. · · · · · · · · · · · · · · · · · · ·		e ^r i	0.50.000.00		
- Zamb. Breedin	-			850,000.00		5 . A
(San Marce	-	·	5	050.000.00	•	ate artal.
- Magsaysay Me		ursery,		250,000.00		
(Castillejos) - Total value los				1,892,200.00	-	an an tha an Arian An an Arian Arian
- Total Value los Fround Total Value Los		··· · · ·		1,452,819,261.00		n geselendenden. Frankrigen (* 1919) Frankrigen (* 1919)
	33 (1) US	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	1,70,037,001,00		· "我们的你们是你们的?"
A) Actual	- · ·			598,030,805.00		and the states

ource: Republic of the Philippines, Department of Agriculture, Region III San Fernando, Pampanga (18)

(2) Summary Cost Estimates of Infrastructure Programs/Projects for the Reconstruction and Rehabilitation of Areas Affected by the Mt. Pinatubo Eruptions and Its Effects Region III. As of 31 December 1991 (in thousand pesos).

Agancy and			Wottem Arens				Eastern Arces	1000	•		Other Areas			Grand	Percent
Major Programs/Projects	ojects	Zambalcs	Between	Olongapo	Total	Pampanga	Turtine -	Angeles	Total	Bulacan	N. Ecija	Regionwide	Total	Total	Dist
Dept. of Public Works & Highways	Eleharty a	2,383,900	105,645	204,275	2,783,820	1,387,681	653,992	499,320	2,540,993	44,614	41,834	2,804,000	2,890,448	8,215,260	87.32
A. Road and Bridger		477,121	70,360	67,545	615,026	248,867	103,727	482,380	834,974	39,464	35,679	2,194,000	2,269,143	3,719,143	39.53
1. National		403,622	63,864	6,300	476,786	119,616	87,900	480,380	687,896	13,460	16,809	2,194,000	2,224,269	3,388,951	36.02
- Roeds		328,472	63,500	00 5'6	401,272	31,666	34,250	16,270	82,186	9,160	13,120	•	22,280	506,738	5.38
- Bridgee		75,150	364	•	75,514	87,950	53,650	464,110	605,710	4,300	3,689		7,989	689,213	7.33
- Alternate Routes		•	•	•		•	•	•	•	•	. !	2,194,000	2,194,000	2,194,000	
2. Local Roads and Bridges	ridges	73,499	6,496	58,245	138,240	122,021	15,827	2,000	147,078	26,004	18,870		44,874	330,192	3.51
- Provincial/City		8,653	1,769	•	10,422	56,551	1,895	•	58,446	3,701	•	•	3,701	72,569	0.77
- Municipel		28,072	- 0 <i>1</i> Z	58,245	86,587	16,100	255	2,000	18,355	6,155	•	•	6,155	111,097	1.18
- Barangay		36,774	4,457	•	41,231	56,600	13,677	•	712,07	16,148	18,870	•	35,018	146,526	156
B. Flood Control/Drainage	ວອີສມ	1,421,123	•		1,421,123	973,788	503,325	• •	1,477,113	•	•	610,000	610,000	3,508,236	37.29
C. Water Supply (Level I)	៤រា	1,665	•	,	1,665	4,365	•	•	4,365	•	•	•	•	6,030	0.06
D. Schoel Buildings		409,690	33,475	141,930	585,096	118,621	13,050	11,940	154,801	5,050	3,155	•	8,205	748,101	7.95
E. Other Public Buildings/Structures	ings/Structures	74,300	1,810	84,800	160,910	30,850	33,890	. 5,000 .	69,740	100	3,000	•	3,100	223,750	2.48
Dest. of Trans. & Communication	mication	19,178	700	4,212	24,090	26,803	11,436	34,282	72,521	•	•	97,375	97,375	193,985	2.06
A. Telecon Facilities (TELOF)	(TELOF)	6,702	. •	2,712	9,413	1,707	344	<u>8</u>	2,211	•	• •	3,375	3,375	15,000	0.16
B. Postal Facilities (PSO)	so)	290	•	1,300	1,590	•	•	•	•	•	. '		•	1.590	0.02
C. LTO Buildings (LTO)	ê	186	700	200	1,086	8	32	122	310	•	•	•	•	1,396	10:0
D. Aipor Facilities (ATO)	VIO)	12,000	Ľ	•	12,000	•	•	•	۲		•	,	•	12,000	0.13
E. Railway Facilities (PNR)	(FNR)		•	•	•	25,000	.11,000	34,000	70,000	•	'		•	70,000	0.74
F. Emergency Communication System	unication System	•	•			•	•	•	•	•	•	<u>94,000</u>	94,000	2000	
National Itrigation Administration	if steadiors	57,895	12,982		70,877	066'61	31,547	1,897	113,434	•	1	247,289	247,289	431,600	4.59
 A. National Irrigation Systems 	Systems	25,017	2,275	•	27,292	17,828	21,089	•	38,917	•	•	160'12	:60'12	93,300	0.99
B. Communel Imigation Systems	on Systems	32,878	10,707	•	43,585	62,162	10,458	1,897	74,517	1		17,198	17,198	135,300	4.1
C. Other Projects		•		•		•			i.	,	•	203,000	203,000	203,000	
Netional Electrification Administration	dministernion	21,711	1,739	•	23,450	14,771	9,070	•	23,841	•		•	•	47.291	0.50
National Power Corporation	륑	360	1,199	3,244	5,304	•	2,025	862 7	2,323	,		•	•	7,627	0.08
Local Waterworks & Unilities Admin.	itica Admin.	15,641	2,000	65,000	82,641	20,340	3,447	10,000	34,287	1	,	10,072	10,072	127,000	1.35
Department of Health		16,200	3,120	14,650	33,970	7,730	4,810	24,150	36,690	,		100,340	100,340	171,000	1.82
Anned Forces of the Philippines/DND	DDinea/DND		·	•	•	,	•	•	•		1	214,000	214,009	214,000	127
National Economic, and Devit Authority	sevit Authority			,	,		-	'	•	1		15	15	15	8.0
Grand Total		2,515,385	127,396	391,381	3,024,151	1,537,815	716,326	569,947	2,824,088	44,614	41,834	3,473,091	3,559,539	9,407 778	100.00
		. 1								ļ					

Source: DPWH III

(3) Government's Program for Rehabilitation and Recovery by Foreign Funds (ODA)

Permission Calibration		533				Cost (=		50 00 00	Cost (a	Development	ъ З	Cost (a
66.00 2.448 BeachooDrectopment 13.400 0.303 Drectoment 13.400 13.718 Production 1371 Drectoment 7.718 Production 7.718 Production 7.718 Production 7.718 Drectoment 7.718	1	(P million)	-	~	(P million)	(\$ million)	S	(Pmillion)	(5 million)	·e	(P million)	(Smilfion)
15.100 Side Hadih and Niterican Servica: 7 36.000 13.45 Agrinithural Development Servica: 36'000 13.45 Agrinithural Development Servica: 24.57 Lowhard New Resentionent Servica: 36.000 13.468 Production of EIC 0.000 0.373 Deep Sea, Frainsag 5.800 2.173 Aaat Resentionent Servica: 36.000 13.468 Production of EIC 0.000 0.373 Deep Sea, Frainsag 5.800 2.173 Aaat Resentionent Servica: 3.600 0.210 Christal Institutes 0.150 0.011 Institutes 4.0000 1.498 Unitarian Advicanta 4.100 0.210 Christal Institutes 0.100 0.001 Minicula of Encirca 4.0000 1.498 Unitarian Advicanta 4.100 5.303 Sames 0.100 0.010 Minicula of Encirca 4.0000 1.498 Unitarian Advicanta 4.100 5.303 Sames 0.010 Minicula of Encirca 9.0000 1.479 Core Stellar 1. 4.0000 5.303 Sames 0.010 Minicula of Encirca 9.0000 1.479 Core Stellar 1. 4.0000 5.303 Sames 0.011 Minicula of Encirca 1.000000 1.479 Core Stellar 1. 4.0000 1.488 Diverse 0.011 Minicula of Encirca 1.000000 1.479 Core Stellar 1. 1.40000 5.303 Sames 1.000000 1.011 Reservica 2.00000 <td>Bamboo Development</td> <td>66.600</td> <td>2.494 Bamboo Develo</td> <td>yment</td> <td>13.400</td> <td>0.502 Agri</td> <td>icultural Rehabilitation</td> <td>000.721</td> <td>7.378 Pr</td> <td>roductivity Centers</td> <td>1,120.000</td> <td>41.948</td>	Bamboo Development	66.600	2.494 Bamboo Develo	yment	13.400	0.502 Agri	icultural Rehabilitation	000.721	7.378 Pr	roductivity Centers	1,120.000	41.948
156.100 5.64 Hindlin and Natricion 367.000 137/45 Apricultural Development 645.000 2.137 Lowhard New Restationed 360.000 13.488 Production of EIC 10.000 0.375 Deep San Fraining 58.000 2.177 Ann Restationence 360.000 13.488 Production of EIC 10.000 0.375 Deep San Fraining 58.000 2.177 Ann Restationence 360.000 13.488 Production of EIC 10.000 0.375 Deep San Fraining 58.000 2.177 Ann Restationence 5.600 0.201 Critical Includence Stress 0.150 0.001 Infogrand Owner 4.0000 1.493 Unitzation of NFE Literary 4.140 0.201 Critical Includence Stress 0.150 0.001 Advice Stress 0.100 1.40000 7.494 Core Stretter Assistance 4.140 0.201 Critical Includence Stress 0.150 0.004 Microtal Ann Ann 4.0000 1.435 Coress 4.140 1.151 Eurorentical for Critical Strandon 0.000 0.001 Adviced Avectorence 7.435 Core Strandon 1 4.0.000 5.201 Seminares 0.000 0.001 Adviced Avectorence 7.00000 7.435 Assolf Trandon- 4.0.000 1.436 Seminares 0.000 0.018 Adviced Avectorence 7.435 Auget-Productionaria 4.0.000 1.44000 2.00000 1.817 Adviced Avectorence 7.435 Auget-Productionar			•			Pros	grace					
360.000 13.468 Program 560.00 13.468 Producting 0.000 0.375 Degs San Frishing 580.00 2.172 Area Restandance 13.300 0.468 Community Organization 0.300 0.316 0.000 Instance 1.200.000 4.494 Cons Reliar Austiones 5.000 0.101 0.006 Instance Proprint 0.000 Instance 1.409 Unitarian or PTEL Intervention 4.14.0 0.135 Intervention 0.100 0.000 Mentanda Volumization 1.409 Unitarian or PTEL Intervention 4.14.0 0.135 Intervention 0.100 0.000 Mentanda Volumization 1.400 4.14.0 0.135 Intervention 0.000 Mentanda Volumization 1.400 4.14.0 0.135 Intervention 0.000 Mentanda Volumization 1.400 4.14.0 0.135 Intervention 0.000 Mentanda Volumization 1.400 4.10.0 1.400 0.001 Mentanda Mentanda Mentanda 4.10.0 1.400 0.146 Mentanda Mentanda Mentanda 4.10.0 1.400 0.146 Mentanda Mentanda Mentanda 1.400.00 1.400	::	156.100		ition	367.000	13.745 Agn	icultural Development	645.000	24.157 Lc	owland New Resettlement	1,793.300	291.884
360.00 13450 Production of EC 10.000 0.375 Deep Sea Training 56.000 2172 Area Resentement Sines 13.300 0.498 Community Organizing 0.300 0.011 Integrated Caster 1.900 4.494 Care Shefter, Anstitutuer 5.000 0.498 Community Organizing 0.300 0.011 Integrated Caster 4.400 1.996 Unitization of VFEL interve 5.000 0.210 0.105 0.006 Marganad Pointer 500.000 18.777 Steol Tenerrestore 1.900 4.140 0.155 Intervestione 0.100 0.006 0.008 Intervestione 4.900 1.900000 1.757 Steol Theoretan 1.900000 1.973 Steol Theoretan 1.900000 1.973 Steol Theoretan 1.900000 1.974 Steol Theoretan 1.900000 1.974 Steol Theoretan 1.900000 1.974 Steol Theoretan 1.900000 1.974 Anside Caster 1.900000 1.974 Anside Caster 1.900000 1.974 Anside Caster 1.900000	: : .		Services			Prof	gram		Si	ites		:
13-300 0.496 Community Organizing 0.300 0.011 Integrated Cattle 120.000 4.494 Core Sheller Assistance 5.600 0.210 Critical Incidence Stress 0.100 0.000 Invel Polyter 4.000 1.496 Utilization of NFE Literery 4.140 0.153 Increvention for Cultera 0.100 0.000 Microlanding for 50000 18.777 Schol Frantines, Facilities, and Enginement Polymeration 4.140 0.153 Increvention for Cultera 0.100 0.000 Microlanding for 50000 18.775 Schol Frantines, Facilities, and Enginement Polymeration 40.000 2.035 Seminers 0.000 0.001 Inding to Small and 2.00000 7.436 Carebras In Asia Carebras 40.000 2.045 Day Care Startice 4.900 0.011 Inding to Small and 2.00000 7.436 Carebras In Asia Carebras 40.000 2.046 Day Care Startice 4.900 0.114 Carebras 3.000 1.873 San Formolo- 40.000 2.046 Day Care Startice 4.900 0.114 Carebras 3.000 3.743 Meetines 40.000 2.046 Day Carebras 1.00000 37.43 Meetines 3.000 1.873 San Formolo- 1.146 Day Care Starter 1.0000 1.911 Doyo 1.930 0.114 Roter Systeme Rouchs and Britinges 1.0000 0.351 Baitererin 0.066 0.46		360.000	13.483 Production of IE	Ŋ	10.000	0.375 Dec	rp Sca Fishing	58.000	2.172 A	eta Resettiement Sites	344.700	12.910
and Modifizing Future in Advite Program 5.600 0.2010 Child Incidence Stress 0.100 Incidence Stress 0.100 Incidence Stress 0.100 Incidence Stress 0.000 Incidence Stress 1 1.00000 1.498 Day Experiments 1.00000 0.111 Incidence Stress 0.000 Incidence Stress 1 1.00000 1.498 Distart Preparedness 1.0000 0.011 Incidence Stress 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		13.300	0.498 Community Org	guizing	0.300	0.011 Inte	grated Cattle	120.000	4,494 CC	ore Shelter Assistance	40.000	1.498
560 0.210 Critical Incidence Stress 0.150 0.006 Inegrated Poultry 40.000 1.498 Utilization of VFEJ Litenery 4.140 0.131 Entervention for Calidren 0.100 0.004 Kircled Worker 500.000 18.777 Selos I Firmihurs, Feilifies, and Canters 4.140 0.135 Entervention for Calidren 0.100 0.004 Kircled Worker 500.000 18.777 Selos I Firmihurs, Feilifies, and Canters 140.000 5.243 Enterventions 0.090 0.001 Landing to Small and 2.000.000 18.77 Selos I Firmihurs, Feilifies, and Enters 40.000 1.498 Day Care Service 4.900 0.018 Crannos Service 5.0000 18.73 San Fernando. 1 10.000 5.243 Enterventas 0.184 Common Service 5.0000 1.873 San Fernando. 1 11.00000 1.498 Day Care Service 4.900 0.018 Common Service 5.0000 1.873 San Fernando. 1 11.00000 1.498 Day Care Service 4.900 0.131 Liteners 1.000000 2743 Augles Prost-P			and Mobilizing)		Fath	ening Program					•
Debrieflag Livellacod Program Teachers in Asia Centers 4.140 0.153 Intervention of rChildren 0.100 0.000 16.777 Shool Franctines, Facilities, and Equipment Program. 1.400 5.243 Semination of rChildren 0.100 0.000 Landing to Small and 2,0000 18.777 Shool Franctines. 1.4000 5.243 Semination 0.060 0.001 Landing to Small and 2,0000 18.73 Shool Franctines. 1 1.4000 5.243 Semination 0.060 0.001 Landing to Small and 2,0000 1.873 San Franctoot 1 1.4000 1.486 Dig Cares Service 4,900 1.184 Cares Sprattoot 1 1.4000 1.486 Dig 3.500 1.111 Landing to Projents 1,00000 31.453 Auglets Preschoning Noted 1.4000 1.486 Dig 3.000 1.873 San Franctoot 1 1.00000 31.453 Auglets Preschoning Noted 1.4000 1.486 District 1.000000 1.146 Cares Systems 3.000 0.114 Kive Systems 1 1.4000 1.1062.000 40.554 Balk Probinity of Projents 10.00000 31.453 Auglets Preschoning Project 1 1.4000 1.14 Kive Systems 1.106000 0.373 Otters 0.461 1 1.4000 1.14 Kive Systems 1.100000 0.373 Otters <		5.600	0.210 Critical Incident	ce Stress	0.150	0.006 Inte	grated Poultry	40.000	1.498 Ui	'tilization of NFE Literacy	5.000	0.187
4.140 0.155 Inservention for Children 0.100 0.000 Miscrolanding for 500.000 18.777 School Furnitures, Facilities, and Equipment Proturement 14.000 5.233 Seminaro on 0.000 0.000 1.475 Sam Fernandon 1 14.000 5.233 Seminaro on 0.000 0.000 1.475 Sam Fernandon 1 14.000 1.498 Day Care Service 4.900 0.184 Common Service 500.00 1.877 Sam Fernandon 40.000 1.498 Day Care Service 4.900 0.131 Linding to Projects 1,000.000 71.453 Angelse-Prove. Floridablence 1.40.000 1.498 Day Care Service 3.000 1.475 Sam Fernandon 1 River Systems 1.082.000 40.324 Buik-Probinsiya 3.000 1.875 Sam Fernandon River Systems 1.082.000 4.0324 Buik-Probinsiya 3.000 1.478 Siver Systems Improvement Project 0.034 Buik-Probinsiya 3.000 0.375 Obers Improvement Project 0.080 Sistems 0.375 Obers 0.461 River Systems 1.082.000 0.375 Obers 0.375 Obers Improvement Project 0.0461 1.2300 0.375 Obers River System 2.6664 982.000 0.375 Obers River System 2.6664 982.000 0.375 O	1		Debricfing			Live	clihood Program		Ţ	eachers in Asia Centers	÷	
Id Constrained Affected Workers Affected Workers and Equipment 140000 5.243 Starniston 0.080 0.001 Landing to Small and 2,000000 74.966 Capes-Beachan Road 140000 1.4488 Day Care Startines 0.080 0.011 Landing to Small and 2,000000 74.366 Capes-Beachan Road 40.000 1.4488 Day Care Startine 4.900 0.184 Cammon Startice 50.000 1.875 Star Fernando- 1 Roads and Bridges 35.000 1.311 Landing to Projects 1,000000 37.433 Augles-Prove-Pro-Fordiableace- 1.80000 River Systems 1,062.000 40.324 Buik-Probinityin 3.020 0.114 River Systems 1.114 River Systems Inprovement Project 0.981 1,062.000 40.324 Buik-Probinityin 3.020 0.114 River Systems Inprovement Project 0.981 1.00000 0.375 Outers 0.461 Roads and Frides 1.00000 0.375 Outers 0.461 Asstartion 1.2220 0.461 Asstartion Road Ret-Amblination of Feachers 10.0000 0.375 Others Roads and Frides Roads and Rivion System 0.465 Roads and Rivion 1.2320 0.461 Roads and Rivion 1.2320 0.461 Roads and	Administrative Services	4.140	•••	Children	0.100	e,	trolending for	500.000	18.727 Sc	chool Furnitures, Facilities,	35.000	1311
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29.428 8.455.370 316.681					-	Ros	uds and Bridges	1,350.000				
		785.740			1,512.930	56.664		8,455.370	316.681		12,945.807	484.862
		ad Total (A +	B+C+D)		73,699.847	887.635					: : : : : :	

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Location/Name of	Service	Amount	Remarks (Nature of works to be done)
CIS	Area (ha.)	(Peso)	
Conception		• •	
1. Lucong CIS	2,250	980,000.08	
Level I		800,000.00	Desilting of canals, raising of canal embankment to serve as cofferdam to mudflow and channelization.
Level II		180,000.00	Repair of gates, desilting of canals and repair/replacement of collapsed falling shutter.
2. Sto. Rossario CIS	150	148,000.00	
Level I	. •	80,000.00	Desilting of canals and raising of protection dike.
Level II		68,000.00	Replacement of flash board and collapsed falling shutter.
3. Sta. Monica CIS	740	280,000.00	
Level I		150,000.00	Desilting of canals, unclogging and raising of protection dike.
II level II (21		130,000.00	Repair of gates and collapsed falling shutter and reapir of diversion dam.
4. Sta. Rita CIS	165	800,000.00	
Level I		- 	Area was totally silted. Rehabilitation is not advisable in this season.
Level II		800,000.00	Reconstruction of irrigation facilities if area found to be feasible for cultivation.
5. Mania CIS	100	800,000.00	
LevelI		•	Immediate rehabilitation of CIS totally silted by mudflow is impractical due to area is not advisable
•			to cultivate in this season.
Level II		800,000.00	Reconstruction of intake structures, canal structures, canals and terminal facilities in area found to be feasible
			for cultivation.

CIS	Area (ha.)	(Peso)	(2/4)
6. San Martin CIS	230	900,000,006	
LevelI			Immediate rehabilitation of CIS totally silted by mudflow is impractical due to area is not advisable
			to cultivate in this season.
Level II		900,000,006	Reconstruction of instructures, canal structures, canals and ternal facilities if to be feasible
			for cultivation.
7. Lilibangan CIS	240	900,000,006	
Level I			Immediate rehabilitation of CIS totally silted mudflow is impractical due to area is not advisable to cultivate in this season.
Level II		900,000,009	Reconstruction of instructures, canal structures, canals and terminal facilities if found to be feasible for cultivation.
8. Magao CIS	<u>96</u> 0	2,800,000.00	
Level I		ł	Immediate rehabilitation of CIS totally silted by mudflow is impractical due to area is not advisable to cultivate in this season.
Level II		2,800,000.00	Reconstruction of instructures, canal structures, canals and terminal facilities and diversion dams if area found
-			to be feasible for cultivation.
9. Telabanca CIS	328	160,000.00	
Level I		40,000.00	Desilting of canals unclogging, channelization.
II Jevel II 22)		120,000.00	Desilting of canals and repair of intake structures.
10. San Bartolome CIS	S 350	240,000.00	
Level I		80,000.00	Raising of protection dike and desilting of canals.
Level II		160,000.00	Repair of diversion works, intake structures, desilting of canals and repair of gates.
11. Baluto CIS	740	360,000.00	
Levle I		160,000.00	Desilting of canals, raising of protection dike, unclogging.
Level II		200,000.00	Repair of intake structures, repair of checkgate and desilting of canals.
12. Sta. Cruz-Guge	200	40,000.00	
LevelI		40,000.00	Raising of protection dike and desitting of canals.
Level II	- 		Program for CY-1992 (CIDIP).
13. Balucuk CIS	100	30,000.00	
Level I		30,000.00	Desilting of canals and raising of protection dike.
LevelI			Program for CY-1992 (CIDIP).
	÷	,	

Location/Name of	Service	Amount	Remarks (Nature of works to be done)
CIS	Area (ha.)	(Peso)	(3/4)
Bamban_	a succession of the succession		
1. Bamban CIS	623	120,000.00	
		•	Immediate restoration is impractical, water source was silted and water supply is not suitable for irrigation in
	· .	- - 	this season.
Level II	-	120,000.00	Channelization repair of intake structures and desilting of canal.
2. Panaisan CIS	112	100,000.00	
Level	·	100,000.00	Desilting of canals, raising of protection dike, unclogging.
Level II		.	Program for CY-1992 regular project.
3. Malonzo CIS	250	80,000.00	
Level I			Immediate reconstruction is impractical, water source was silted and water supply is not suitable for irrigation in
			this season.
Level II		80,000.00	Channelization, desilting of canals and repair of intake structures.
4. Bancu CIS	119	60,000.00	
LevelI	÷	F	Immediate restoration is impractical, water source was silted and water supply is not suitable for irrigation in
			this season.
Level II	·	60,000.00	Repair of intake structures and desilting of canals.
5. San Pedro CIS	140	140,000.00	
LevelI			Immediate restoration is impractical, water source was silted and available water supply is not suitable for irrigation in
			this season.
Level II		140,000.00	Repair of intake structures, channelization and desilting of canals.
Capas			
1. Susuba-Cutcut CIS	30	260,000.00	
Level I	·	80,000.00	Unclogging removal of debris and desilting of canals.
Level II		180,000.00	Repair of checkgate, raising of embankment and desilting of canals.

Location/Name of	Service	Amount	Remarks (Nature of works to be done)	
CIS	Area (ha.)	(Peso)	(4/4)	
2. Lab CIS	340	120,000.00		•
Levell		120,000.00	Desilting of canals, unclogging and raising or protection dike.	
Level II		•	Program for CY-1992	
3. O'Donnel #1	130	300,000.00		
Level I		80,000.00	Unclogging and desilting of canals.	
Level II		220,000.00	Desilting of canals, and repair of intake structures.	
4. O'Donnel #2	25	140,000.00		
LevelI		: •	Area was totally silted by mudflow, immediate rehabilitation of the system is impractical due to the area is not	
			advisable to cultivate in this season.	
Level II		140,000.00	Reconstruction of canals and intake structures.	
Tarlac				
R 1. Sinait-Dolores CIS	150	140,000.00		
Level I		•	River source was silted by mudflow, water supply is not suitable for irrigation in this season.	
Level II		140,000.00	Channelization and desilting of canals.	
2. Sta. Maria CIS	416	260,000.00		
Level I		•	River source was silted by mudflow, water supply is not suitable for irrigation in this season. Immediate	
		•	rehabilitation is impractical.	
Level II		260,000.00	Desilting of canals and channelization.	
3. Lubigan CIS	155	180,000.00	to a first a second	
4 Tha-Shila CIS	250	120.000.00	Desiling of cut and cover, carais and construction of spinutes.	• •
Level I		120,000.00	Desilting of canal lining, canals and channelization.	. •
Total		10,458,000.00		
Level I Level II		2,000,000.00 8,398,000.00		
				:

	Particular	Bataan	Pampanga	Tarlac	Zambales	Total
١.	Municipality (No.)	7	12	10	12	41
2.	Barangay (No.)	85	187	144	112	528
3.	Plowing Activities					
	3.1 Farmers Served (no.)	6,169	14,605	11,188	13,945	45,907
	3.2 Area Targetted (ha.)	9,082	22,049	22,949.5	17,289	71,370
	(3 inches above with financia assistance on plowing)	1			245 Mah man dip nin yan yan 250 Mah 1989	
	3.3 Total Area Plowed (ha.)	8,859	20,811	22,449.5	16,376	68,496
	- Percent Accomplished	98	94	98	95	96
	3.3.1 Area Plowed by Mode					
	a. Rice	8,420	20,667	22,369.5	12,802	64,259
	- Carabao	5,557	7,466	4,189.5	4,320	21,533
	- Hand tractor	2,383	2,199	8,499.5	933	14,015
	- 4-wheel tractor	480	11,002	9,680.5	7,549	28,712
	b. Vegetables	319	13	30	2,344	2,706
	- Carabao	251	13	30	644	938
	- Hand tractor	22	-	~	13	35
	- 4-wheel tractor	46	-	-	1,687	1,733
	c. Root Crops	120	131	50	1,230	1,531
	- Carabao	72	116	5	310	503
	- Hand tractor	-	-	•	1	1
	- 4-wheel tractor	48	15	45	919	1,027
	3.3.2. Mode Used (no.)					
	- Carabao	1,729	7,648	2,550	4,789	16,716
	- Hand tractor	335	438	700	262	1,735
	- 4-wheel tractor	14	137	200	27	378
	3.3.3 Amount to be paid (P)	8,618,410	20,746,000	22,449,500	17,637,340	69,451,250
	- Carabao	5,853,010	7,595,000	4,224,500	8,922,560	26,595,070
	- Hand tractor	2,397,950	2,199,000	8,499,500	950,050	14,046,500
	- 4-wheel tractor	367,450	10,952,000	9,725,500	7,764,730	28,809,680

(5) Mr. Pinatubo Rehabilitation Program as of March 27, 1992 (1/2)

Source: Republic of the Philippines, Department of Agriculture, Region III San Fernando, Pampanga

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Particular	Bataan	Pampanga	Tarlac	Zambales	Total
4. Area Planted (ha.)	8,661	20,570	22,450	8,818	60,499
(3 inches and above with financial					in godine
assistance on plowing)		00.107		c 700	F × F F
4.1 Rice	8,225	20,426	22,369.5	5,729	56,750
4.2 Vegetables4.3 Root Crops	316 120	13 131	30 50	2,033 1,056	2,392 1,357
-	120	131		1,000	13JJ (
5. Input Assistance (distributed)				e terre i se	
5.1 Palay (cav.)	982	6,277	• •	350	7,609
5.2 Recipient (cav.)	883	5,968	-	15	6,866
5.3 Vegetable (pkt.)	182,623	307,758	408,312	236,284	1,134,977
5.4 Recipient (no.)	14,170	30,147	31,686	14,668	90,671
5.5 Fruit Tree Seedings (pcs.)	7,414	358,111	256,000	88,916	710,441
5.6 Recipient (no.)	1,112	23,874	17,066	5,927	47,979
5.7 Fertilizer (bags)	31,703	50,180	73,541	29,052	184,476
5.8 Recipient (no.)	8,105	15,299	14,456	13,028	50,888
6. Area Targetted below 3 inches	2,692	7,436	5,652.5	2,535	18,316
ashfall with inputs/fetilizer					
assistance only (ha.)				en de la composition de la composition En la composition de la	•
6.1 Area planted (ha.)	2,639	7,436	5,652.5	2,535	18,263
6.1.1 Rice	2,607	7,436	5,652.5	2,535	18,231
6.1.2 Vegetables	10	_	-		10
6.1.3 Root Crops	22	- ⁻	- · · -	11. j. j. j. .	22
6.2 Farmers served (no.)	1,979	3,502	3,059	2,138	10,678
6.2.1 Rice	1,949	3,502	3,059	2,138	10,648
6.2.2 Vegetables	10	-	-	ant Ang anta a n ang	10
6.2.3 Root Crops	20	. _		•	20
7. Total Area Targetted (ha.)	11,774	29,485	28,602	19,824	89,685
8. Total Area Planted (ha.)	11,300	28,006	28,102	11,353	78,761
9. Percent Accomplished	96	95	98	57	88
10. Harvesting Operation (rice)					
10.1 Area harvested (ha.)	9,747	24,300	26,582	7,163	67,792
10.2 Production (cav.)	761,512	2,158,659	2,343,709	528,906	5,792,786
10.3 Ave. yield/ha. (cav.)	78	-,-00,000	88	74	85

Mr. Pinatubo Rehabilitation Program as of March 27, 1992 (2/2)

Source: Republic of the Philippines, Department of Agriculture, Region III San Fernando, Pampanga

(6) Agricultural Rehabilitation and Development Program Phase II - CY -1992 (P 000)

		1214-14-14-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			f name:]	DEVTPR	XG 👘
Project	Bataan	Pampanga	Tarlac	Zambales	N. Ecija	Region	Total
I. Agricultural Rehabilitation and Deve	lopment		ala, mang segara kan kan sa m	анта на 1999.		<u></u>	
1. Provision of inputs	-	-	-	10,940	-	-	10,940
2. Livestock Dev't. and	1,750	11,900	10,300	10,990	-	-	35,000
Forace Production					•		
3. Water Resource Dev't.	1,050	13,930	11,340	23,680	-	-	50,000
4. Fishery Dev't.	47	2,519	2,000	1,434	-	-	6,000
I. Livelihood for Settlement Areas							
1. Farming Provision and Livestock	-	14,400	12,800	22,800	-	-	50,000
II. Livelihood for Lahar Affected Area							
1. Organic Farmine	-	2,770	1,700	400	200	-	5,070
2. Basket Technology	-	3,670	4,450	1,360	660	-	10,140
3. Forage Production	-	250	2,900	700	-		3,850
V. Administrative Support	283	4,500	3,500	5,132	95	3,500	17,000
Total	3,130	53,939	48,990	77,436	955	3,500	187,950

(7) Agricultural Rehabilitation and Development Program Department of Agriculture, Region III

											Clemente		Cince	
I. Agricultural Rehabilitation & Development									:					
Livestock Development and												•		
Forage Production @P70,000/module						•								!
Area (has.)	16	16	16	14	14	14	14	14	16	14		•.		148
Cost (000) (Loan)	1,120	1,120	1,120	980	980	980	086	086 086	1,120	980				36
Water Resource Dev't @P70,000/unit														
STW (units)	8	ສ	31	12	12	12	12	12	19	12				162
Cost (000) (Loan)	1,400	1,400	2,170	840	840 048	840	840	840	1,330	840				11,340
Fishery Development @P0.35/pc				•										
Fingerlings (pcs.)	672,600	672,600	960,450	567,150	567,150	567,150	299,250	299,250	795,150	299,250		.,		5,700,000
Cost (000) (grant)	236	236	337	199	199	199	105	105	279	105				2,000
II. Livelihood for Lahar Affected Areas														
Restort Technoloov @P10 000/ha						•								
Target (has.)	67	67	267	44									:	445
Cost (000) (grant)	670	670	2,670	440					·					4,450
Organic Farming @P10,000/ha.												 -		
Target (has.)	2	31	0 ²	17	~	. 5	13		11			12		170
Cost (000) (grant)	150	310	700	170	10		130		110	:		120	•	1,700
Forage Production @P20,000								· · ·			:	<u>.</u>		·
Target (has.)	8	ଟ୍ୟ	43	52					33		1			
Cost (000) (grant)	580	580	860	440					440	r.				2,900
III. Livelihood for Seulement Areas				-							•			
Farming (Provision of farm inputs														
@P2,500/family)											÷	:		;
Cost (000) (grant)		6,500				÷					89			1,050
No. of Families		2,500							÷		8			2,700
Livestock (Anisal Dispersal)				٤.										:
Cost (000) (grant)		5,000									250			5,750
No. of Families		2,000						-			8	• •		2,300
IV. Administrative Support					•.								3,500	3,500
Total	4,156	15,816	7,857	3,069	2,029	2,019	2,055	1,925	3,279	1,925	1,250	120	3,500	49,000
I.oan	2,520	2,520	3,290	1,820	1,820	1,820	1,820	1,820	2,450	1,820	1,250	•• •	•	22,950
Grant	1 676	13.206	4.567	1.249	200	199	235	105	829	105	•	120	3,500	26.050

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