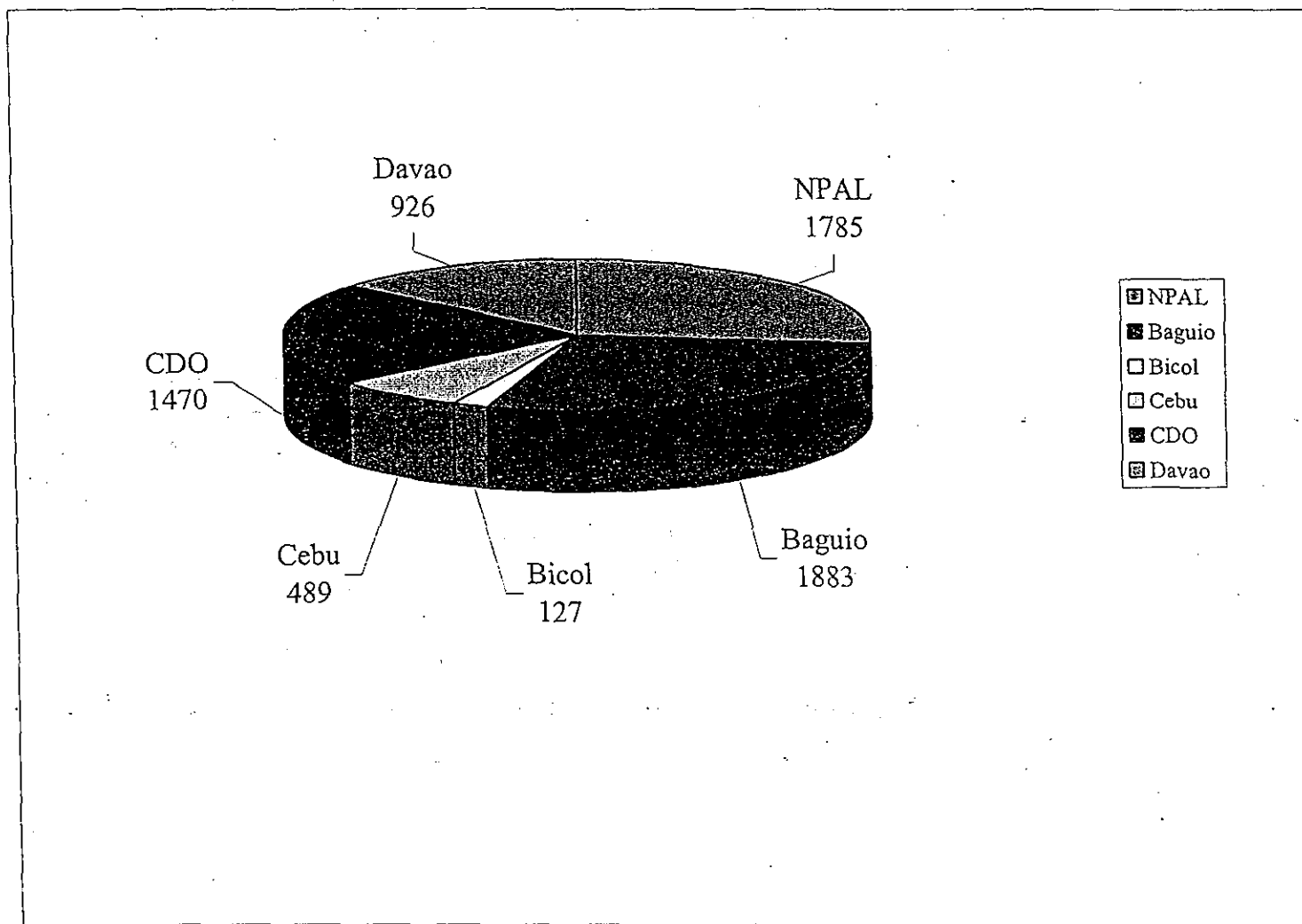
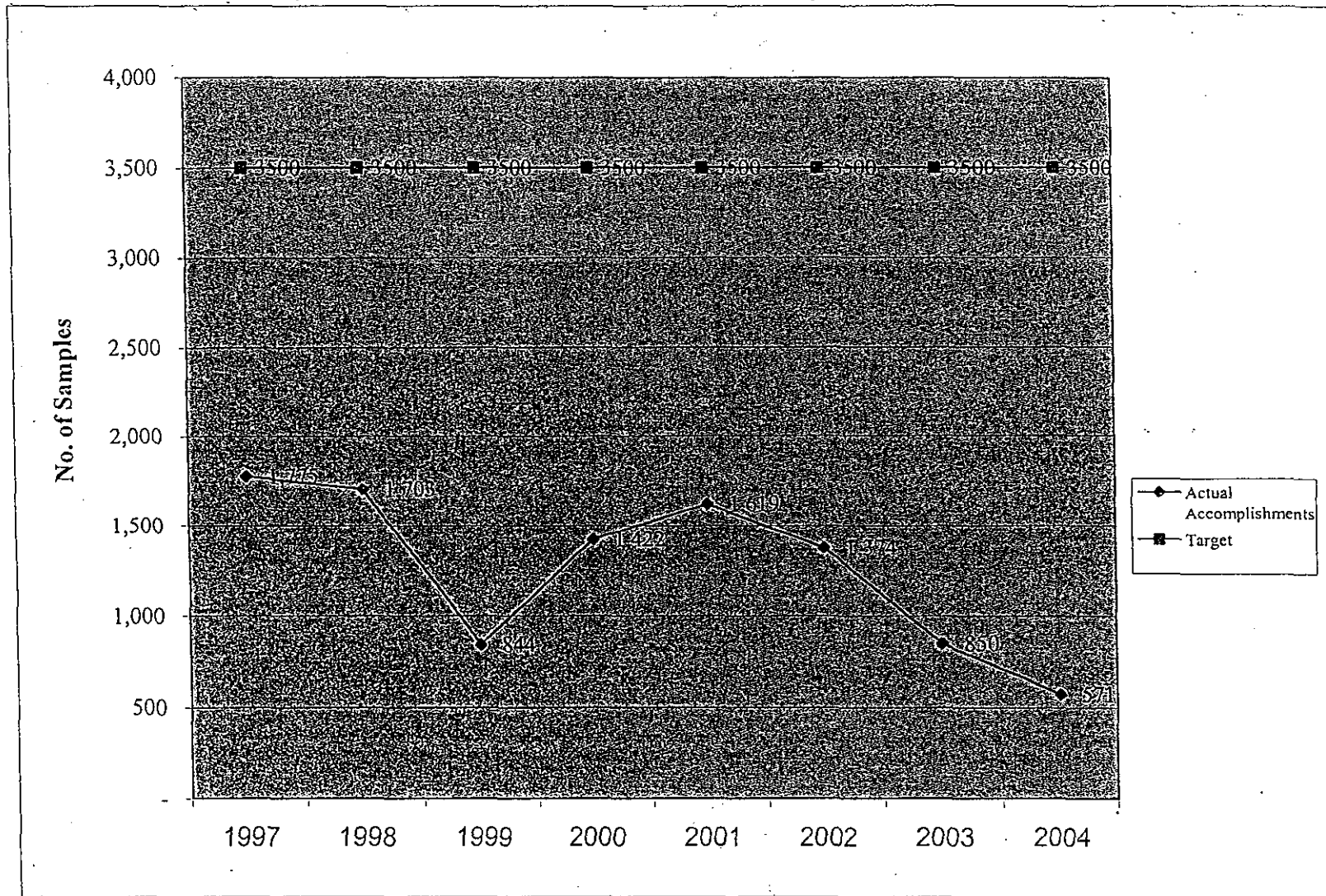


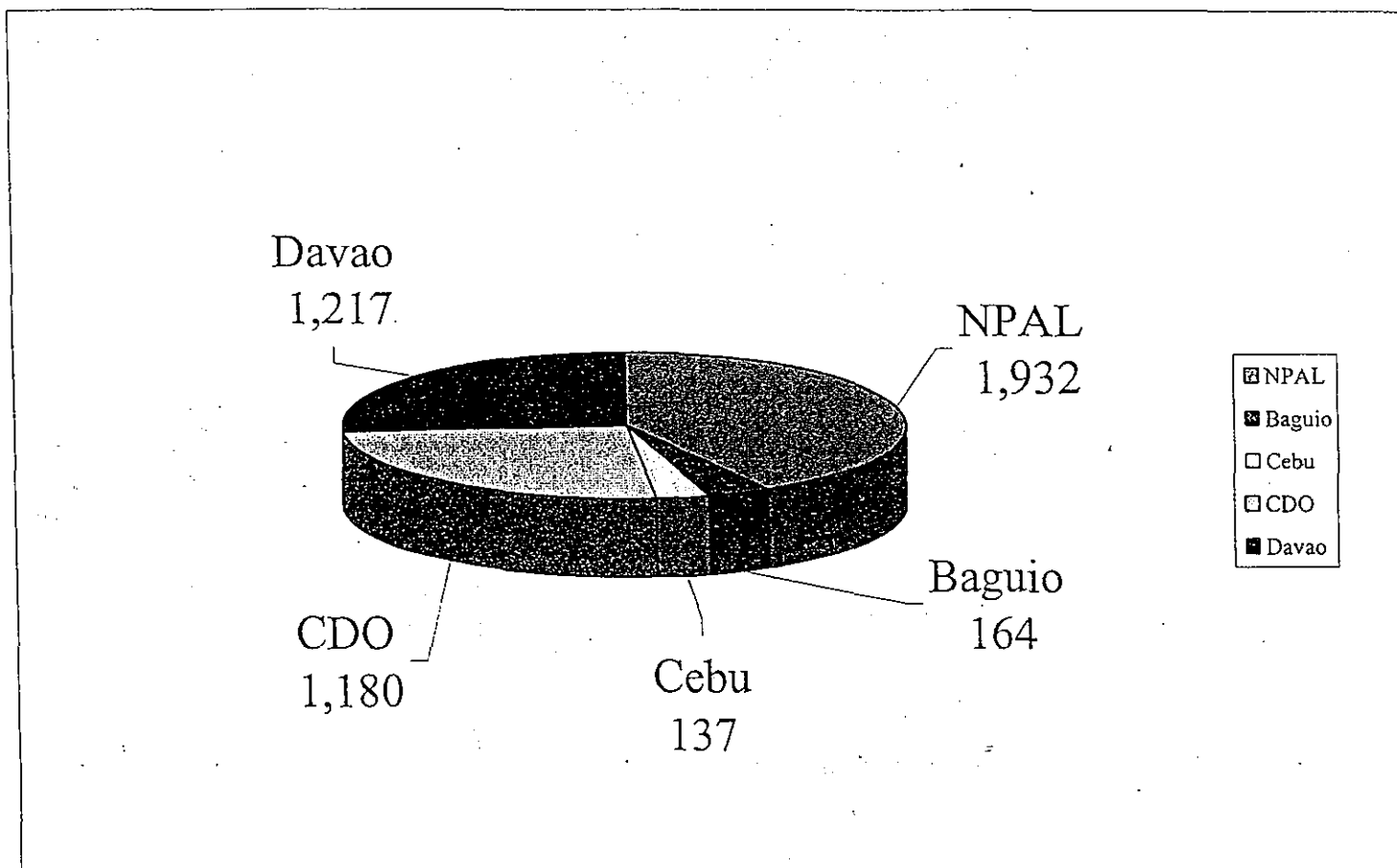
4.1 Consolidated No. of Pesticide Residue Monitoring Samples 1997 - 2004



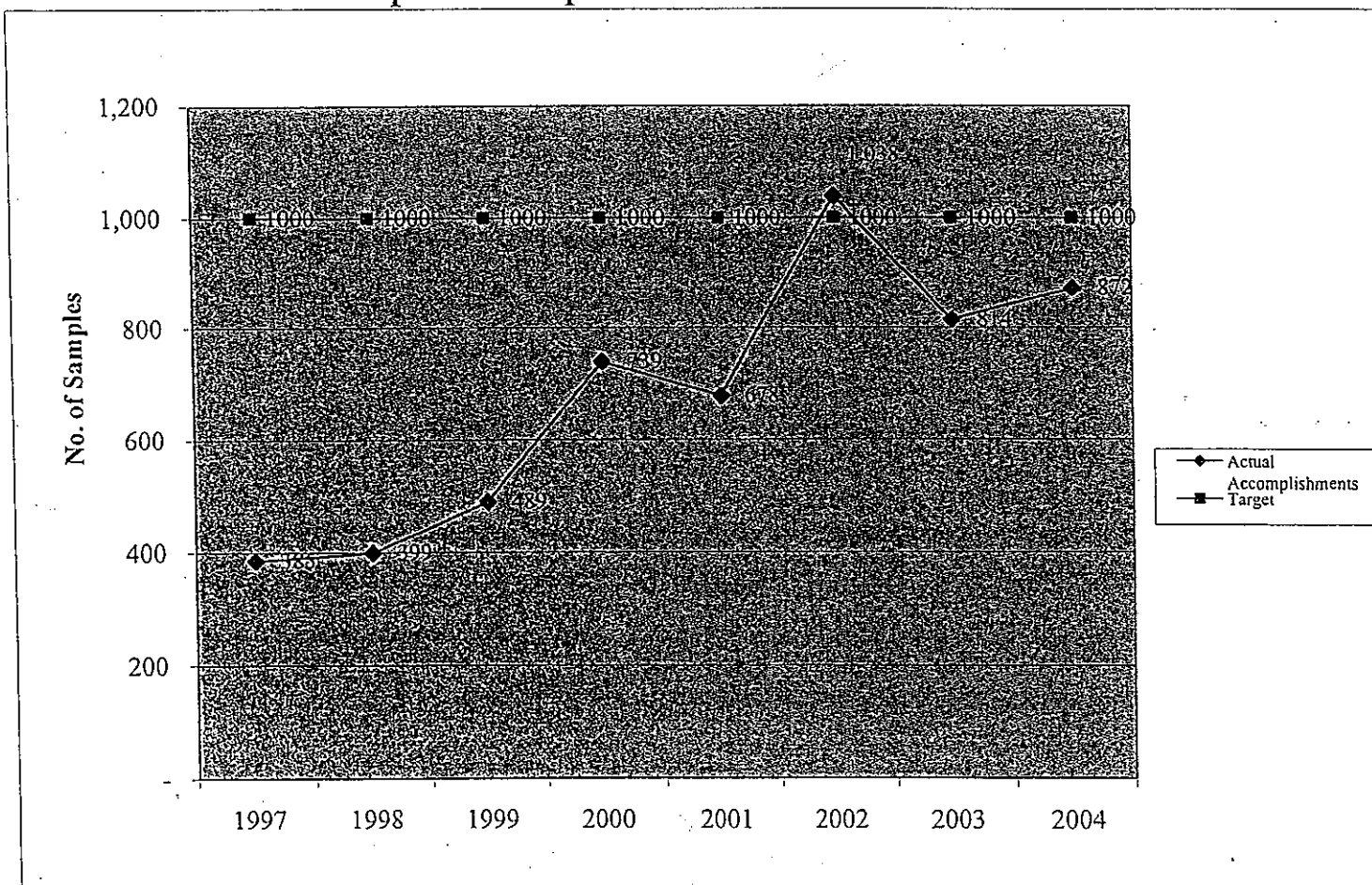
4.2 Consolidated PALs Pesticides Residue Monitoring Targets vs. Actual Accomplishments per Annum* 1997 - 2004



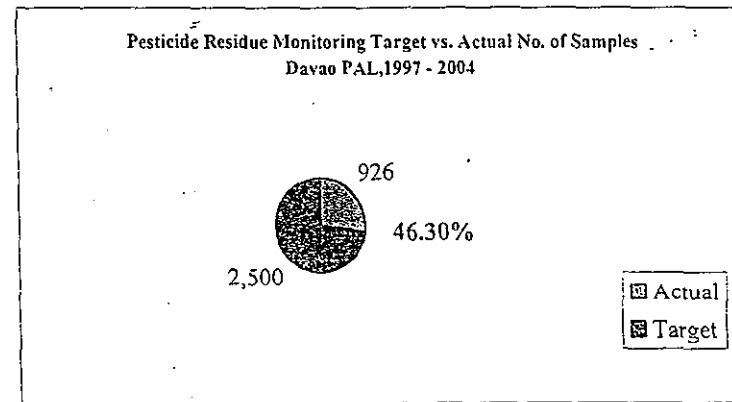
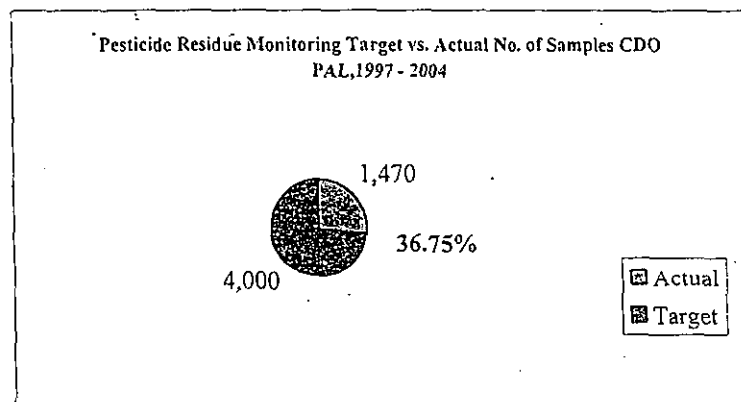
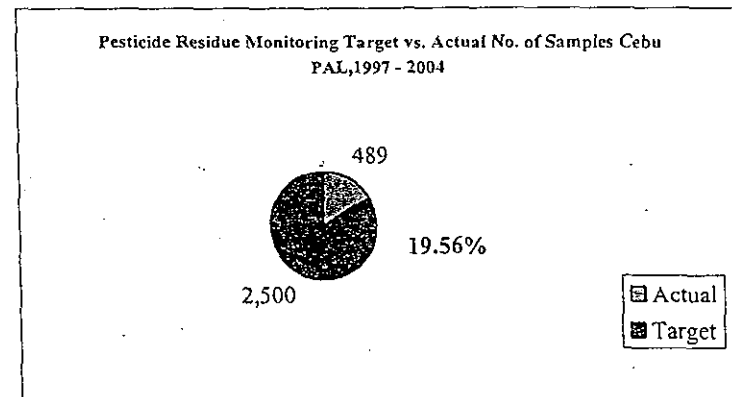
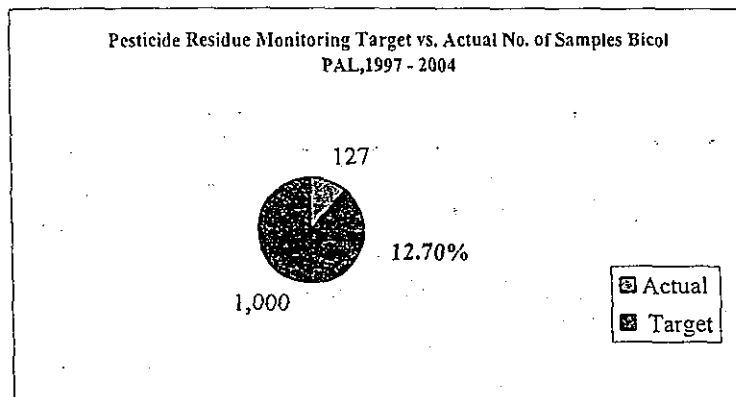
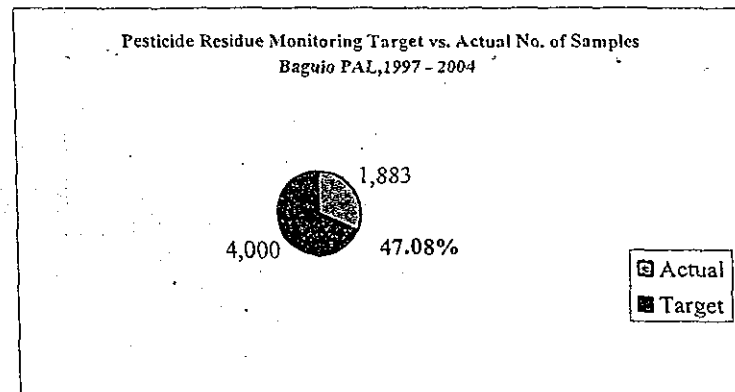
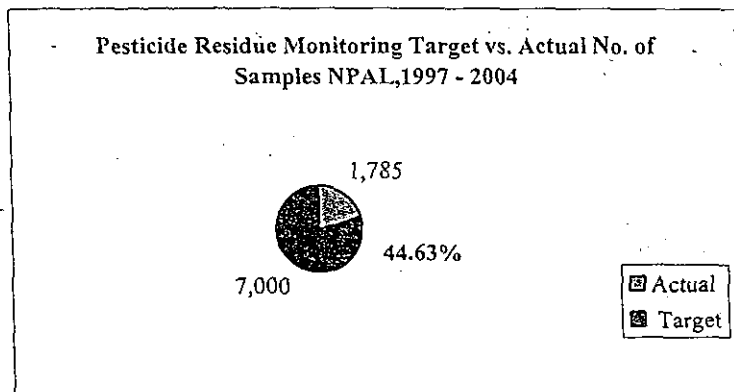
4.3 Consolidated No. of Pesticide Residue Analytical Services 1997 - 2004



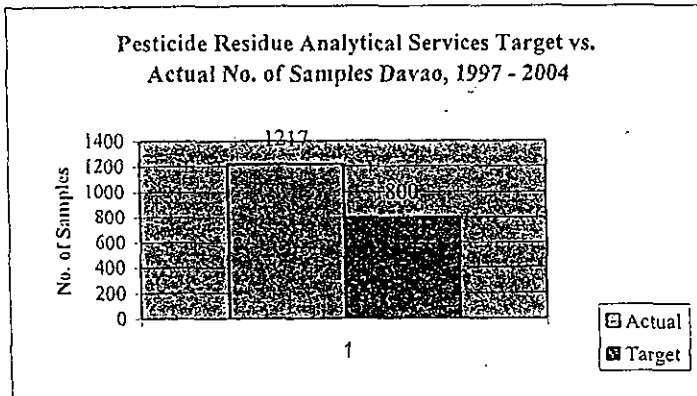
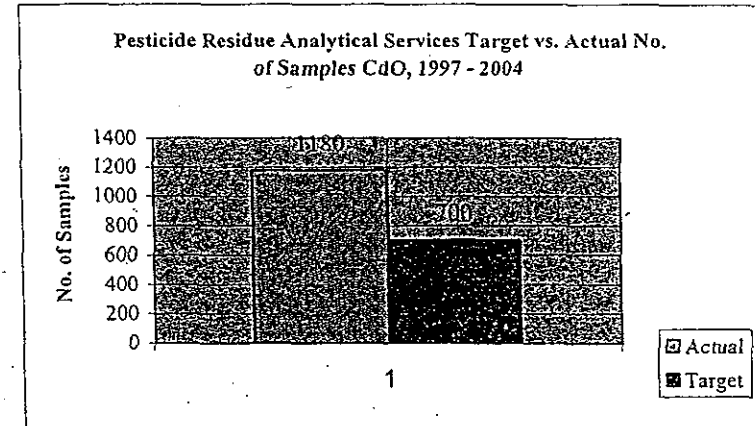
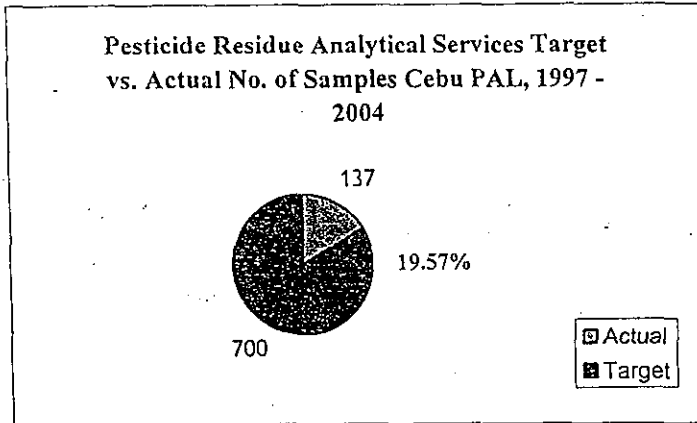
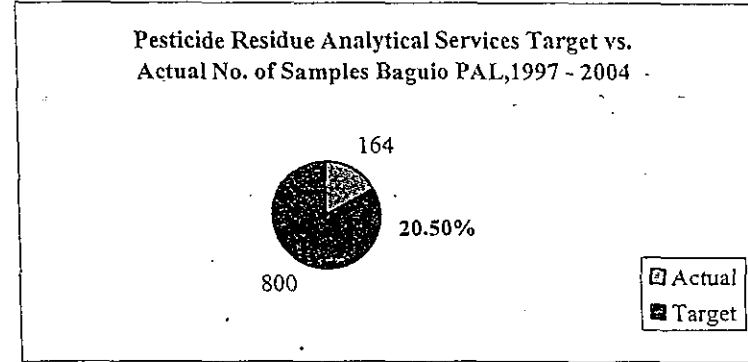
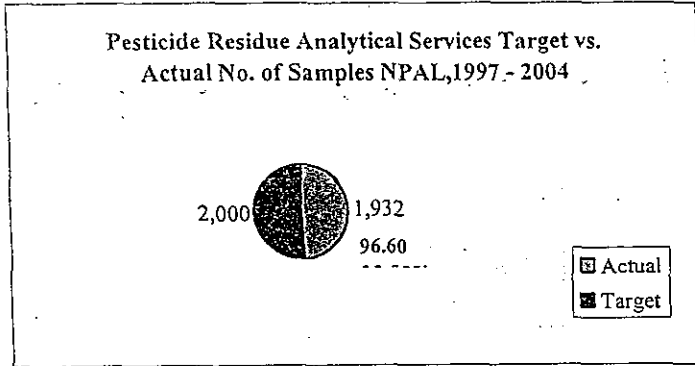
4.4 Consolidated PALs Pesticide Residue Analytical Services Targets vs. Actual Accomplishments per Annum* 1997 - 2004



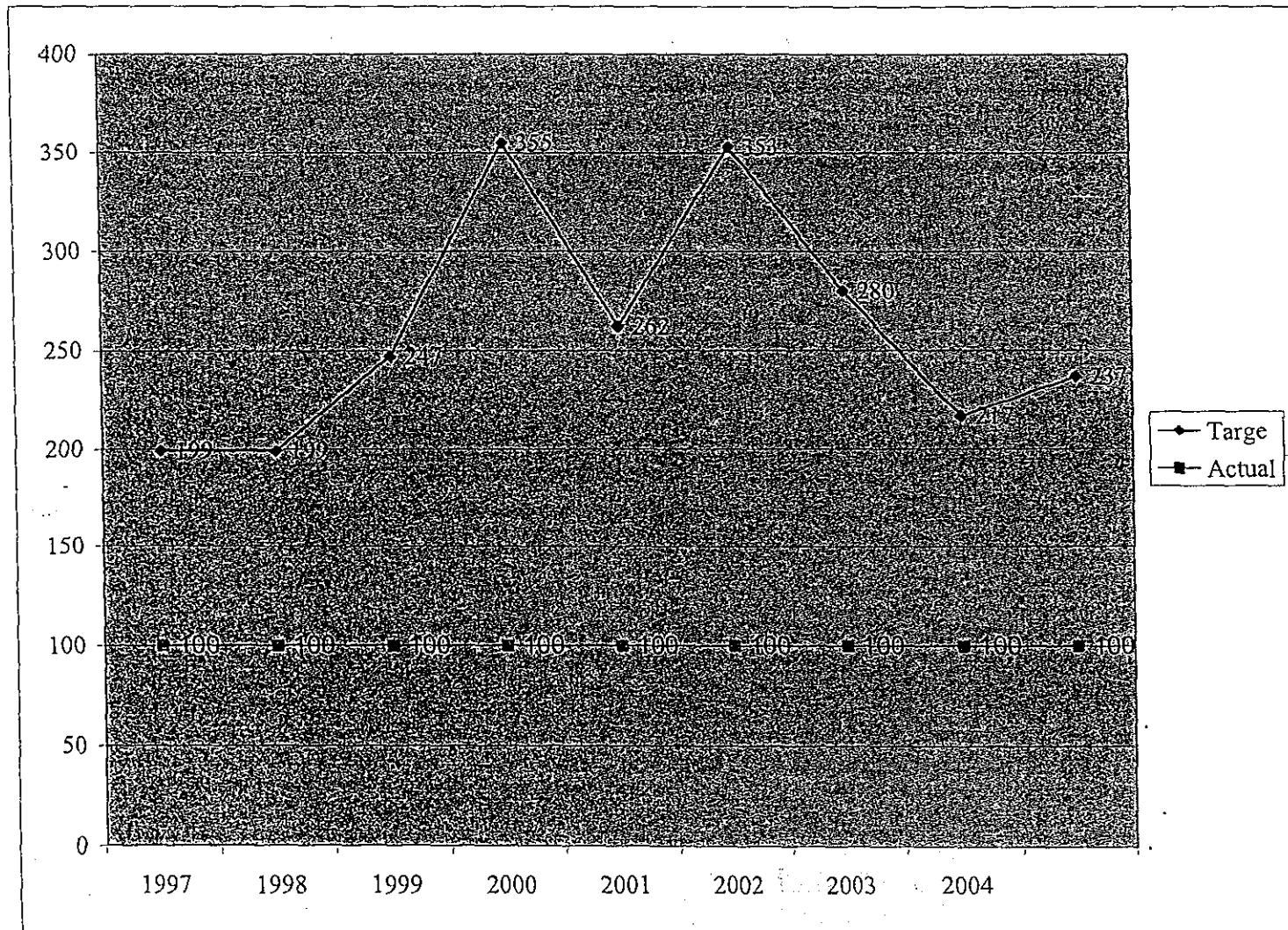
4.5 Chart of Pesticide Residue Monitoring by PALs



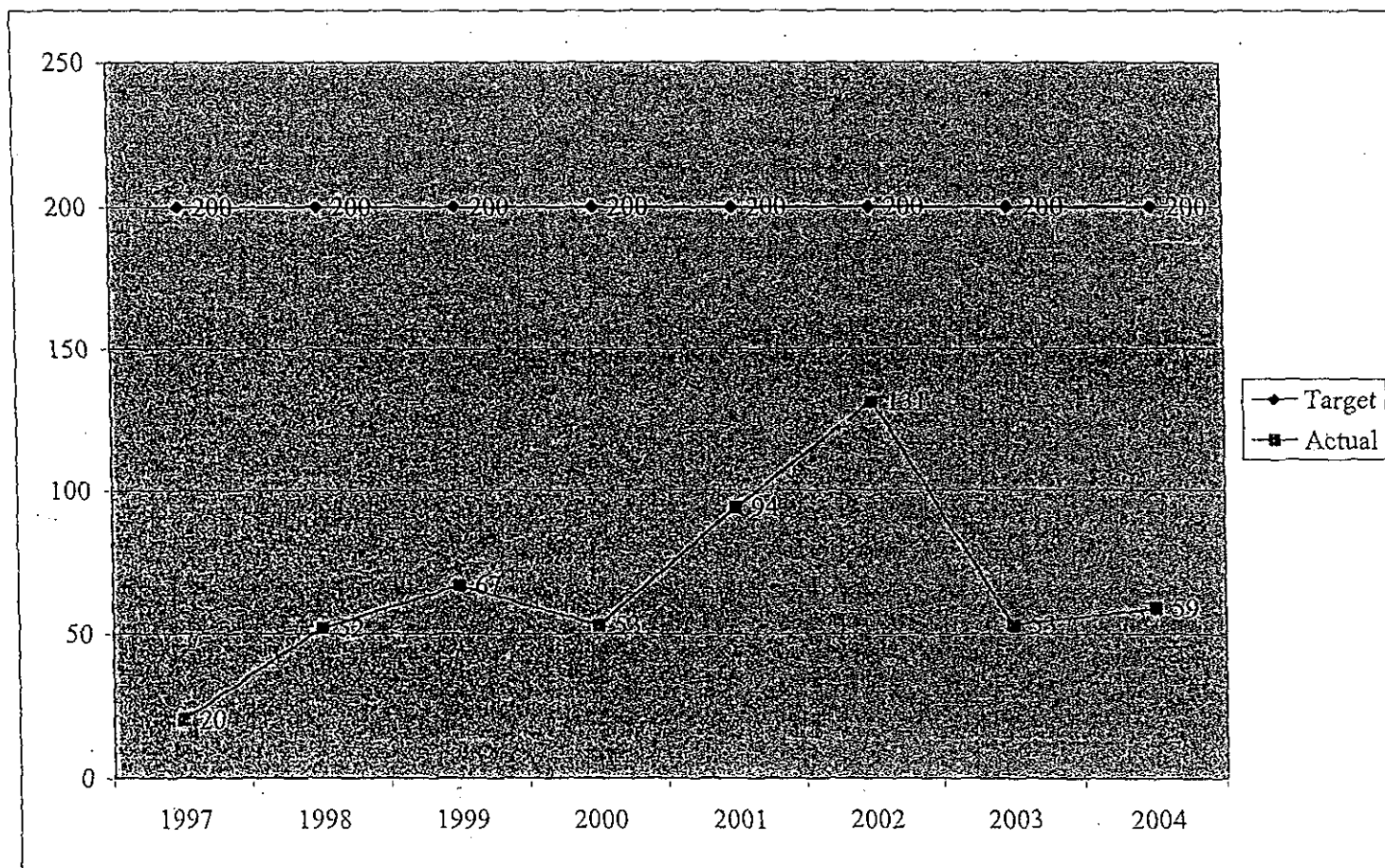
4.6 Chart of Pesticide Residue Analytical Services by PALs



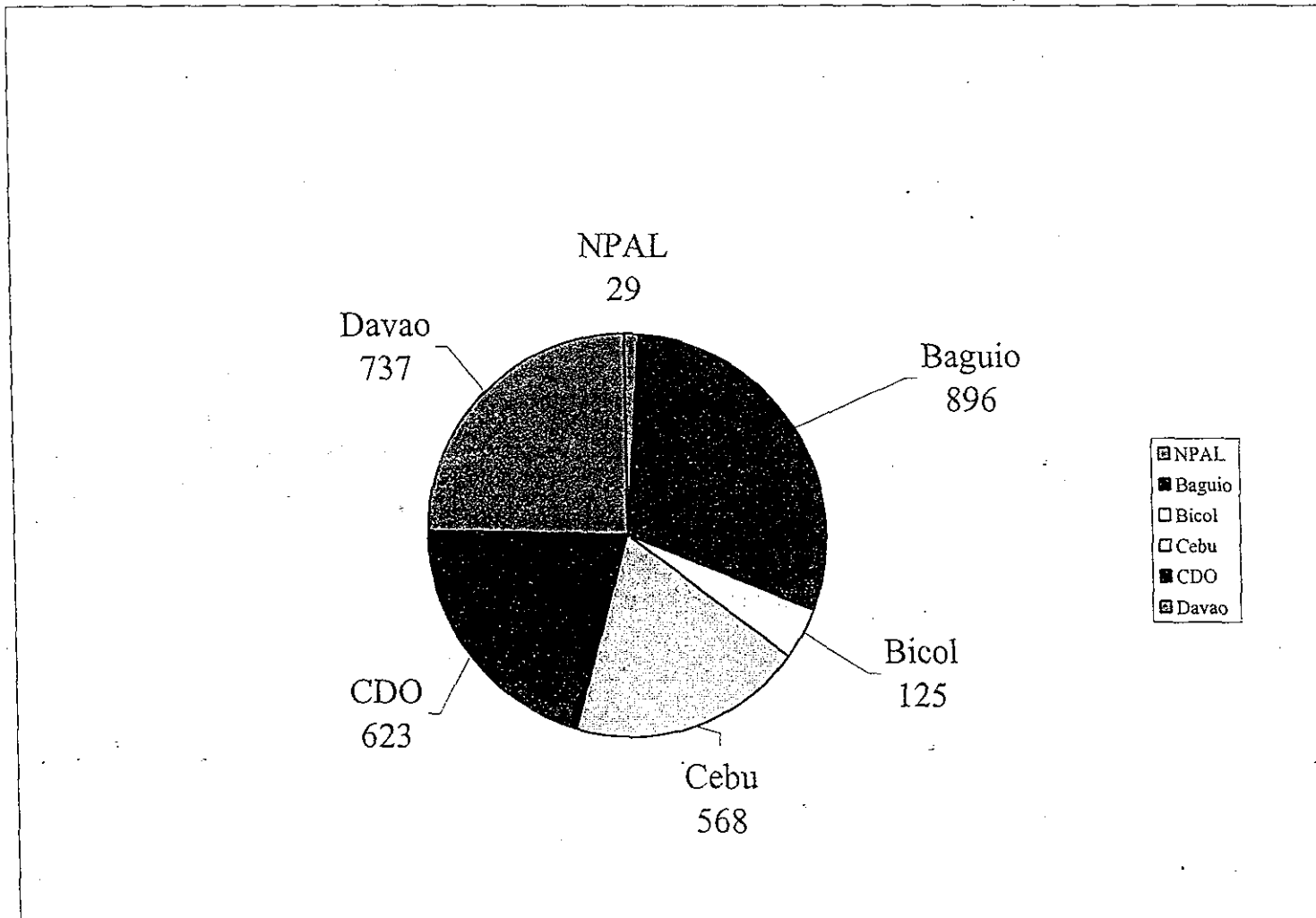
4.7 NPAL Pesticide Formulation Services* 1997 - 2004



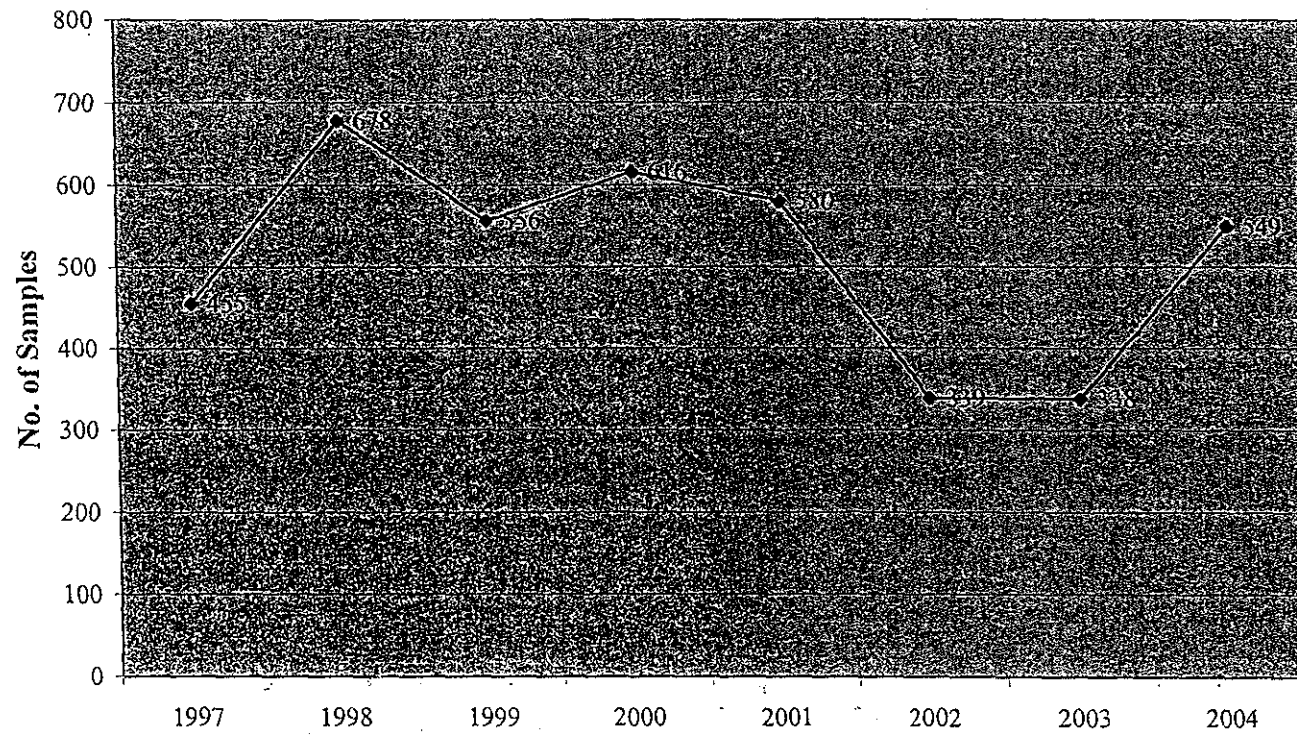
4.8 NPAL Pesticide Formulation Monitoring* 1997 - 2004



4.9 Consolidated No. Of Samples Farmer Surveys On Pesticide Usage 1997 - 2004



**4.10 Consolidated PALs Farmer Surveys on Pesticide Usage
Actual Accomplishments per Annum * 1997 - 2004**



**EQUIPMENT
INVENTORY
PHASE I**

Location Legend:
 QC - NPAL 2nd - Second Floor plan
 BG - BAGUIO FO - Formulation Unit (NPAL)
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General Annex 6. Consolidated Equipment Inventory
EQUIPMENT INVENTORY SHEET
 Status of Facilities and
 Equipment Provided under the Project

Condition of Equipment: 0 - Working
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 Frequency of Use:
 Regularly - Everyday or at least once a week
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 Rarely - once in 6 months to one year

General Annex 6.1

No.	Name of Equipment			Qty	Location (site)	Condition of Equipment 0: working x: not working	Frequency of use (Regularly, Occasionally, Rarely or Never)	Problems Encountered After Project Completion/ Other Remarks
	Item/Description	Model No.	Date Acquired					
Phase I								
1	Vehicle w/Ref.	Std. Roof DX type Wagon TD42	1997	1	DA	0	Regularly	Good running condition
2	Refrigerator (for standard solution)	SR - 27 MV1	1997	1	FO	0	Regularly	
3	Refrigerator (for standard solution)	SR - 27 MV1	1997	1	DA	0	Regularly	
4	Refrigerator	SR - L33VH	1997	1	RE	0	Regularly	
5	Refrigerator	SR - L33VH	1997	2	DA	0	Regularly	
6	Freezer (for std. Of Pesticide)	MDF - U331	1997	1	FO	0	Regularly	
7	Freezer (for std. Of Pesticide)	MDF- U331	1997	1	DA	0	Regularly	
8	Freezer (for sample homogenized)	MDF - U536D	1997	2	DA	0	Regularly	
9	Blender (heavy duty)	8011G	1997	4	RE	Feb-00 2-X	Regularly	
10	Blender (heavy duty)	8011G	1997	2	DA	X		
11	Homogenizer	T - 25 & Others	1997	2	RE	0	Regularly	
12	Homogenizer	T - 25 & Others	1997	1	DA	0	Regularly	
13	Grinder Continuous	MFC	1997	1	RE	0	Regularly	
14	Grinder Continuous	MFC	1997	1	DA	0	Occasionally	
15	Shaker (horizontal/vertical)	V - SX	1997	1	RE	0	Regularly	
16	Shaker (horizontal/vertical)	V - SX	1997	1	FO	0	Regularly	
17	Shaker (horizontal/vertical)	V - SX	1997	1	DA	0	Regularly	
18	Shaker (rotary)	RS - 12	1997	1	DA	0	Occasionally	
19	Shaker (w/water bath)	MM - 10	1997	1	FO	0	Regularly	

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	Item/Description	Model No.	Date Acquired			0: working	x: not working		
20	Soxhlet extraction apparatus	EUR - 3/EUR - 5	1997	1	RE	0		Regularly	
21	Soxhlet extraction apparatus	EUR - 3/EUR - 5	1997	1	MF				
22	Ultrasonic Bath large	8.20E+07	1997	1	RE	0		Regularly	
23	Ultrasonic Bath medium	5.20E+07	1997	1	RE	0		Regularly	
24	Ultrasonic Bath medium	5.20E+07	1997	1	FO	0		Regularly	
25	Ultrasonic Bath medium	5.20E+07	1997	1	DA	0		Regularly	
26	Ultrasonic Bath small	2.20E+07	1997	1	FO	0		Regularly	
27	Analytical Balance	JPO-210W	1997	1	RE	0		Regularly	
28	Analytical Balance	JPO-210W	1997	1	FO	0		Regularly	
29	Analytical Balance	JPO-210W	1997	1	DA	0		Occasionally	
30	Top Loading Balance	FP - 6200	1997	3	RE	0		Regularly	
31	Top Loading Balance	FP - 6200	1997	1	FO	0		Regularly	
32	Top Loading Balance	FP - 6200	1997	1	DA	0		Regularly	
33	Distilling Apparatus 5L	SPECIAL	1997	1	RE	0		Occasionally	
34	Distilling Apparatus 1L	SPECIAL	1997	1	DA	0		Occasionally	
35	Distilling Apparatus 1L	SPECIAL	1997	1	FO	0		Occasionally	
36	Water Bath 1kw	RW - 128	1997	1	RE	0		Regularly	
37	Water Bath 1kw	RW - 128	1997	1	DA	0		Occasionally	
38	Mantle Heater 1L	EM - 1000/CE	1997	1	RE	0		Occasionally	
39	Mantle Heater 1L	EM - 1000/CE	1997	1	DA	0		Occasionally	
40	Mantle heater 1L	EM0500/CE	1997	1	RE	0		Occasionally	

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2nd - Second Floor plan
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General Annex 6. Consolidated Equipment Inventory

EQUIPMENT INVENTORY SHEET

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General Annex 6.1

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	Item/Description	Model No.	Date Acquired					
41	Rotary Evaporator w/water bath	N - 1NW	1997	7	RE	0	Regularly	
42	Rotary Evaporator w/water bath	N - 1NW	1997	2	FO	0	Regularly	
43	Rotary Evaporator w/water bath	N- 1NW	1997	5	DA	0	Regularly	
44	Cooling Aspirator	CA - 1100A	1997	4	RE	0	Regularly	
45	Cooling Aspirator	CA - 1100A	1997	1	FO	0	Regularly	
46	Cooling Aspirator	CA - 1100A	1997	3	DA	0	Regularly	
47	Magnetic Stirrer w/hot plate	SR - 350	1997	2	RE	0	Rarely	
48	Magnetic Stirrer w/hot plate	SR - 350	1997	2	FO	0	Regularly	
49	Vacuum Pump	DA - 30S	1997	1	DA	0	Regularly	
50	Laboratory Oven	FS - 320	1997	1	RE	0	Regularly	
51	Laboratory Oven	FS - 320	1997	1	FO	0	Regularly	
52	Laboratory Oven	FS - 320	1997	1	DA	0	Regularly	
53	Dehumidifier	MD - 4	1997	1	RE	0	Regularly	
54	Dehumidifier	MD - 4	1997	1	DA	0	Regularly	
55	Muffle Furnace	KB - 1602	1997	1	RE	0	Rarely	
56	Muffle Furnace	KB - 1602	1997	1	DA	0	Never	No English manual
57	Water Distilling Apparatus S.	GS - 200	1997	1	FO	0	Regularly	
58	Water Distilling Apparatus	GS - 200	1997	1	DA	0	Regularly	
59	Water Distilling Apparatus L	GS - 590	1997	1	RE	0	Regularly	
60	Drying Oven	FP - 612	1997	1	RE	0	Regularly	
61	Drying Oven	FP - 612	1997	1	FO	0	Regularly	
62	Drying Oven	FP - 612	1997	1	DA	0	Regularly	
63	Ultrasonic Pipette Washer	ULC - 1730	1997	1	RE	0	Regularly	
64	Ultrasonic Pipette Washer	ULC - 1730	1997	1	FO	0	Regularly	
65	Ultrasonic Pipette Washer	ULC - 1730	1997	1	DA	0	Occasionally	

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	Item/Description	Model No.	Date Acquired					
66	Centrifuge	CT6D	1997	1	RE	X	Rarely	
67	Centrifuge	CT6D	1997	1	FO	0	Regularly	
68	Centrifuge	CT5DL	1997	1	RE	0	Rarely	
69	Centrifuge	CT5DL	1997	1	DA	0	Occasionally	
70	Ice Making Machine	SIM - P30	1997	1	RE	0	Occasionally	
71	Ice Making Machine	SIM - P30	1997	1	FO	X	Regularly	
72	Ice Making Machine	SIM - P30	1997	1	DA	0	Occasionally	No ice cubes formed
73	PH Meter	720A	1997	1	RE	0	Regularly	
74	PH Meter	720A	1997	1	FO	0	Regularly	
75	PH Meter	720A	1997	1	DA	0	Rarely	
76	Laboratory Can (1)	33-445-01	1997	1	DA	0		
77	Glassware Assorted	Assorted	1997	0,5	RE	0	Regularly	
78	Glassware Assorted	Assorted	1997	0,5	FO	0	Regularly	
79	Glassware Assorted	Assorted	1997	0,3	DA	0	Regularly	
80	Gas Chromatograph (ECD, Dual)	HP6890	1997	2	RE	0	Regularly	
81	Gas Chromatograph (ECD, Dual)	HP6890	1997	1	DA	0	Regularly	UPS necessary due to current fluctuation; AVR not working
82	Gas Chromatograph (ECD, Dual)	HP6890	1997	1	RE	0	Regularly	
83	Gas Chromatograph (ECD, Dual)	HP6890	1997	1	DA	X	Regularly	Not working; PC mainboard not working
84	Gas Chromatograph (NPD)	HP6890	1997	1	RE	0	Regularly	
85	Gas Chromatograph (NPD)	HP6890	1997	1	RE	0	Regularly	
86	Gas Chromatograph (NPD)	HP6890	1997	1	DA	0	Regularly	Changed CPU, needs autosampler, UPS needed

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General Annex 6. Consolidated Equipment Inventory

EQUIPMENT INVENTORY SHEET

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General Annex 6.1

No.	Name of Equipment			Qty	Location (site)	Condition of Equipment 0: working x: not working	Frequency of use (Regularly, Occasionally, Rarely or Never)	Problems Encountered After Project Completion/ Other Remarks
	Item/Description	Model No.	Date Aquired					
87	Gas Chromatograph (FPD)	HP6890	1997	1	RE	0	Regularly	
88	Gas Chromatograph (FPD)	HP6890	1997	1	DA	0	Rarely	
89	Gas Chromatograph (FID)	HP6890	1997	1	FO	0	Regularly	
90	Gas Chromatograph (FID)	HP6890	1997	1	FO	0	Regularly	
91	High Performance Liquid Chromatograph	L - 7100	1997	2	RE	0	Occasionally	
92	High Performance Liquid chromatograph	L - 7100	1997	2	DA	0	Occasionally	Solvent leak, interface D-7000 hang-up
93	UV/VIS Spectrophotometer	U - 300	1997	1	DA	0	Occasionally	Blurred monitor display
94	Air Compressor	0.40P-7S	1997	1	RE	0	Regularly	
95	Air Compressor	0.40P-7S	1997	1	FO	0	Regularly	
96	Assembling Shelf	36-6694-6	1997	20	RE	0	Regularly	
97	Assembling Shelf	36-6694-6	1997	12	FO	0	Regularly	
98	Assembling Shelf	36-6694-6	1997	6	DA	0	Regularly	
99	Fire Extinguisher (CO2 gas type)	10 - Hose	1997	7	RE	0	Never	
100	Fire Extinguisher (CO2 gas type)	10 - Hose	1997	4	FO	0	Never	
101	Fire Extinguisher (CO2 gas type)	10 - Hose	1997	5	DA	0	Never	
102	Folding Table	TBM-6151E-13	1997	4	DA	0	Regularly	
103	Folding Chair	KKD-206DB-Z913	1997	8	DA	0	Regularly	
104	Slide Projector	OMNIGRAPHI C 253-AF	1997	1	DA	0	Never	No appropriate camera

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General Annex 6. Consolidated Equipment Inventory

EQUIPMENT INVENTORY SHEET

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General Annex 6.1

No.	Name of Equipment			Qty	Location (site)	Condition of Equipment 0: working x: not working	Frequency of use (Regularly, Occasionally, Rarely or Never)	Problems Encountered- After Project Completion/ Other Remarks
	Item/Description	Model No.	Date Aquired					
130	Laboratory Sink (2-Sink type)		1997	1	RE	0	Regularly	
131	Laboratory Sink (2-Sink type)		1997	1	FO	0	Regularly	
132	Laboratory Sink (2-Sink type)		1997	1	DA	0	Regularly	
133	Laboratory Sink (Small)		1997	4	RE	0	Regularly	
134	Laboratory Sink (Small)		1997	4	FO	0	Regularly	
135	Laboratory Sink (Small)		1997	3	DA	0	Regularly	
136	Chemical Cabinet		1997	13	RE	0	Regularly	
137	Chemical Cabinet		1997	13	FO	0	Regularly	
138	Chemical Cabinet		1997	7	DA	0	Regularly	
139	Stool		1997	26	RE	0	Regularly	
140	Stool		1997	14	FO	0	Regularly	
141	Stool		1997	10	DA	0	Regularly	
142	Fume Cup Board (Draft Chamber)		1997	3	RE	0	Regularly	
143	Fume Cup Board (Draft Chamber)		1997	1	FO	0	Regularly	
144	Fume Cup Board (Draft Chamber)		1997	1	DA	0	Regularly	

**EQUIPMENT
INVENTORY
PHASE II**

Location Legend:

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General Annex 6. Consolidated Equipment Inventory

EQUIPMENT INVENTORY SHEET
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General Annex 6.2

No.	Name of Equipment			Qty	Location (site)	Condition of Equipment 0: working x: not working	Frequency of use (Regularly, Occasionally, Rarely or Never)	Problems Encountered After Project Completion/ Other Remarks
	Item/Description	Model No.	Date Aquired					
8	Refrigerator for standard solution	SR - 27M	1997	1	CG	0	Regularly	none
9	Refrigerator for standard solution	SR - 27M	1997	1	BC	X		Breakdown of motor
10	Refrigerator for sample extraction	SR - 33K	1997	1	FO	0	Regularly	
11	Refrigerator for sample extraction	SR - 33K	1997	1	BC	0	Regularly	
12	Refrigerator for sample extraction	SR - 33K	1997	1	CG	0	Regularly	none
13	Freezer for standard	MDF - U332	1997	1	BG	0	Regularly	
14	Freezer for sample homogenized	MDF-U536D	1997	2	RE	0	Regularly	
15	Freezer for sample homogenized	MDF-U536D	1997	2	RE	0	Regularly	
16	Freezer for sample homogenized	MDF-U536D	1997	1	CB	0	Regularly	
17	Freezer for sample homogenized	MDF-U536D	1997	1	CG	0	Regularly	none
18	Freezer for sample homogenized	MDF-U536D	1997	1	BC	0	Occasionally	
19	Blender Heavy duty food processor	OSTERIZER - 4105	1997	2	BG	0	Regularly	
20	Blender Heavy duty food processor	OSTERIZER - 4105	1997	2	CB	0	never	Not in used; leak

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General Annex 6.2

No.	Name of Equipment			Qty	Location (site)	Condition of Equipment 0: working x: not working	Frequency of use (Regularly, Occasionally, Rarely or Never)	Problems Encountered After Project Completion/ Other Remarks
	Item/Description	Model No.	Date Aquired					
21	Blender Heavy duty food processor	OSTERIZER - 4105	1997	2	CG	2	Regularly but already wornout	Overheated. First use was organic solvent that dissolved rubber ring. No replacement parts available in the country
22	Blender Heavy duty food processor	OSTERIZER - 4105	1997	2	BC	0	Occasionally	
23	Homogenizer	T-25 & Others	1997	1	BG	0	Regularly	Knob on the side totally destroyed/manual rotation for closing thru the use of screw driver is being applied; O-ring always used-up/changing slit ring Teflon bearing
24	Homogenizer	T-25 & Others	1997	1	CB	0	Regularly	
25	Homogenizer	T-25 & Others	1997	1	CG			
26	Homogenizer	T-25 & Others	1997	1	BC	0	Occasionally	
27	Grinder Continuous for cereals	MFC	1997	1	BC	0	Occasionally	
28	Shaker (horizontal/vertical)	V-SX	1997	1	BG	0	Occasionally	
29	Shaker (horizontal/vertical)	V-SX	1997	1	CB	0	Regularly	
30	Shaker (horizontal/vertical)	V-SX	1997	1	CG	0	Regularly	none
31	Shaker (horizontal/vertical)	V-SX	1997	1	BG			
32	Shaker (rotary)	RS-12	1997	1	CB	0	Regularly	
33	Shaker (rotary)	RS-12	1997	1	BC	0	Rarely	
34	Shaker (with Water bath)	MM-10	1997	1	BG	0	Occasionally	
35	Soxhelt extraction apparatus	EUR - 3	1997	1	BG			
36	Ultrasonic Bath (m)	B5210E - MTH	1997	1	BG	X		Vibrator & heating element defective; need transducer unit replacement
37	Ultrasonic Bath (m)	B5210E - MTH	1997	1	CG	0	Regularly	none
38	Ultrasonic Bath (m)	B5210E - MTH	1997	1	BC	0	Occasionally	
39	Analytical Balance (Dual)	AG245	1997	1	BG			
40	Analytical Balance (Dual)	AG245	1997	1	CB	0	Regularly	
41	Analytical Balance (Dual)	AG245	1997	1	CG	0	Regularly	none
42	Analytical Balance (Dual)	AG245	1997	1	BC	0	Occasionally	
43	Electronic Balance (Top Leading)	FP6200	1997	1	BG	0	Regularly	
44	Electronic Balance (Top Leading)	FP6200	1997	1	CB	0	Regularly	

Location Legend:
 QC - NPAL
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General Annex 6. Consolidated Equipment Inventory
EQUIPMENT INVENTORY SHEET
 Status of Facilities and
 Equipment Provided under the Project
 * - Transferred to NPAL

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0 - Working
 X - Not working

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General Annex 6.2

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	Item/Description	Model No.	Date Acquired					
45	Electronic Balance (Top Leading)	FP 6200	1997	1	BC	0	Occasionally	
46	Distilling Apparatus 5L	SPECIAL	1997	1	BG	0	Regularly	
47	Distilling Apparatus 5L	SPECIAL	1997	1	CB	0	Regularly	
48	Distilling Apparatus 5L	SPECIAL	1997	1	CG	0	Rarely	none
49	Distilling Apparatus 5L	SPECIAL	1997	1	BC	0	Rarely	
50	Water Bath 1kw	RW - 12S	1997	1	BG	0	Regularly	
51	Mantle Heater 1L	EM - 1000/CE	1997	2	BG	0	Regularly	
52	Mantle Heater 1L	EM - 1000/CE	1997	1	CB	0	Never	Not needed
53	Mantle Heater 1L	EM - 1000/CE	1997	1	CG	0	Regularly	none
54	Mantle Heater 1L	EM - 1000/CE	1997	1	BC	0	Rarely	
55	Rotary Evaporator w/water bath	N - 1NW	1997	2	BG	0	Regularly	Glass rod used for releasing pressure broke in 1 unit but fixed already
56	Rotary Evaporator w/water bath	N - 1NW	1997	2	CB	0	Regularly	
57	Rotary Evaporator w/water bath	N - 1NW	1997	2	CG	0	Regularly	Lacks spare part for vacuum seal: Main and sub- seal (Teflon coated Viton +Teflon) Cat # 142610 (EYELA) All Teflon DS-N, Cat # 143880
58	Rotary Evaporator w/water bath	N - 1NW	1997	2	BC	0	Occasionally	
59	Cooling Aspirator	CA - 1100A	1997	2	BG	0	Regularly	
60	Cooling Aspirator	CA - 1100A	1997	2	CB	0	Regularly	
61	Cooling Aspirator	CA - 1100A	1997	2	CG	0	1 Aspirator (CA-1100) needs replacement	
62	Cooling Aspirator	CA - 1100A	1997	2	BC	0	Occasionally	
63	Magnetic Stirrer w/hot plate	SR - 350	1997	1	BG	0	Occasionally	
64	Magnetic Stirrer w/hot plate	SR - 350	1997	1	BC	0	Rarely	
65	Automatic Gel Permeation Chromatograph	VSP - 3050 & Others	1997	1	RE	0	Occasionally	
66	Vacuum Pump	DA - 30S	1997	1	BC	0	Occasionally	
67	Laboratory Oven Activation column	ENS - 111S	1997	1	BG	0	Regularly	
68	Laboratory Oven Activation column	ENS - 111S	1997	1	BC	0	Occasionally	

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	Item/Description	Model No.	Date Acquired			0: working x: not working		
69	Dehumidifier (Desiccator)	MD - 4	1997	1	BG	0	Regularly	
70	Dehumidifier (Desiccator)	MD - 4	1997	1	CB	0	Regularly	
71	Muffle Furnace	KB - 1602	1997	1	BC	0	rarely	
72	Muffle Furnace	KB - 1602	1997	1	BC			
73	Muffle Furnace	KB - 1602	1997	1	CB	0	Never	
74	Water Distilling Apparatus S	SA - 2000E	1997	1	BG	0	Regularly	
75	Water Distilling Apparatus S	SA - 2000E	1997	1	CB	0	Regularly	Maintenance; expensive
76	Water Distilling Apparatus S	SA - 2000E	1997	1	CG	0	Regularly	Needs replacement for the deionizer (ion exchange resin)
77	Water Distilling Apparatus S	SA - 2000E	1997	1	BC	0	Regularly	
78	Drying Oven	AKS	1997	1	BG	0	Regularly	
79	Drying Oven	AKS	1997	1	CB	0	Regularly	
80	Drying Oven	AKS	1997	1	BC	0	Regularly	
81	Ultrasonic Pipette Washer	ULC - 1730	1997	1	BG	0	Regularly	
82	Ultrasonic Pipette Washer	ULC - 1730	1997	1	CB	0	Rarely	Too much water consumption
83	Ultrasonic Pipette Washer	ULC - 1730	1997	1	CG	0	Regularly	none
84	Ultrasonic Pipette Washer	ULC - 1730	1997	1	BC	0	Occasionally	
85	Centrifuge, bench top	CT6D	1997	1	CG	0	Rarely	Current method user does not require centrifugation
86	Centrifuge, large 250ml	CT5DL	1997	1	BC	0	Rarely	
87	Centrifuge, large 250ml	CT5DL	1997	1	BC			
88	Ice Making Machine	SIM - P30	1997	1	BG	0	Regularly	
89	Ice Making Machine	SIM - P30	1997	1	CB	X		Spare parts not available
90	Ice Making Machine	SIM - P30	1997	1	CG	X	Occasionally	Busted sensors/ no ice produced
91	Ice Making Machine	SIM - P30	1997	1	BC	X		For replacement of spareparts
92	PH Meter	720A	1997	1	BG	0	Occasionally	No readout / needs new probes
93	PH Meter	720A	1997	1	CB	0	Never	
94	PH Meter	720A	1997	1	CG	0	Regularly	
95	PH Meter	720A	1997	1	BC	0	Occasionally	

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	Item/Description	Model No.	Date Acquired					
96	Laboratory Cart (1)	33-448-01	1997	2	RE	0	Regularly	
97	Laboratory Cart (1)	33-448-01	1997	2	FO	0	Regularly	
98	Laboratory Cart (1)	33-448-01	1997	1	BC	0	Regularly	
99	Laboratory Cart (2)	33-4037-01	1997	1	RE	0	Regularly	
100	Laboratory Cart (3)	DB - 900	1997	1	RE	0	Regularly	
101	Glassware Assorted	Assorted	1997	1	RE	0	Regularly	
102	Glassware Assorted	Assorted	1997	1	BG	0	Regularly	
103	Glassware Assorted	Assorted	1997	1	CB	X	Rarely	50% serviceable
104	Glassware Assorted	Assorted	1997	1	CG	0	Regularly	No supplier available in the Philippines: a. Separatory funnel (for horizontal/ vertical shaker) b. Plastic stopcock for mini column.
105	Glassware Assorted	Assorted	1997	1	BC	0	Occasionally	
106	HPLC (UV, Fluorescence)	L-7100	1997	1	BG	0	Regularly	Auto sampler not functioning (manual injection in use); trouble in computer software
107	HPLC (UV, Fluorescence)	L-7100	1997	1	CN	0	Rarely	
108	HPLC (UV, Fluorescence)	L-7100	1997	1	CG	0	Regularly	Lacks important spareparts, columns and lamps: Xenon Lamp XBO150, ozone free (#1.22550.001) Deuterium lamp, longlife

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	Item/Description	Model No.	Date Aquired					
								(# 1.23993.0001) HYPERSIL ODS 5 um, 4 mm x 4um HPLC guard column (#1.51322.0001) HypersilMOS (C8) 5 um, 250 mm x 4 um HPLC column (Supelco Cat#: 5-4936) HypersilMOS (C8) 5 um, 250 mm x 4 um HPLC guardcolumn ((Supelco Cat#: Z22. 707-2) Guard column holderwith peek coupler Column coupler,PEEK Union, PEEK, od: 1/16" Rotor seal for injection valve (L-7200 Autosampler) (1.22561.0001) Needle (L7200Autosampler) (#27050.0001) Needle Sleeve ((L7200Autosampler) (#1.22592.0001) PEEK capillary od:, 1/16"x .25mm, x .50 mm, .75mm PEEK Coupling unit (1.18124.0001) Coupling for ST capillary (#1.51213.0001) Ferrules for ST capillary connection, 1/16" (1.5127.0001) Pump seal, (#1.22205.0001) Drain valve seal (# 1.23298.0001)

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	Item/Description	Model No.	Date Acquired					
								Suction valve assembly (#1.27045.0001) Discharge valve assembly (#1.27044.0001) Solvent filter (#1.27047.0001) Dynamic mixer (L-7100 pump) (#1.18885.0001) HPLC sample vials, caps and septa Post-column Derivatization Module *all catalog #'s are form Merck, the rest can be bought from different suppliers
109	HPLC (UV, Fluorescence)	L-7100	1997	1	BC	*		Transferred to NPAL (5/2003)
110	HPLC (Multi)	L-7100	1997	1	RE	0	Rarely	
111	HPLC (Multi)	L-7100	1997	1	FO	0	Regularly	
112	UV-VIS Spectrophotometer	U-3000	1997	1	RE	0	Regularly	
113	UV-VIS Spectrophotometer	U-3000	1997	1	FO	0	Regularly	
114	UV-VIS Spectrophotometer	U-3000	1997	1	BG	0	Occasionally	
115	UV-VIS Spectrophotometer	U-3000	1997	1	CB	0	Never	
116	UV-VIS Spectrophotometer	U-3000	1997	1	CG	0	Occasionally	none
117	UV-VIS Spectrophotometer	U-3000	1997	1	BC	0	Rarely	
118	Infrared Spectrophotometer	FT/IR-300E	1997	1	FO	0	Occasionally	
119	Voltage Regulator, 20KVA	SVC-2290	1997	1	BG	0	Regularly	
120	Voltage Regulator, 20KVA	SVC-2290	1997	1	CB	0	Regularly	
121	Voltage Regulator, 20KVA	SVC-2290	1997	1	CG	0	Regularly	none
122	Voltage Regulator, 20KVA	SVC-2290	1997	1	BC	0	Regularly	
123	Laboratory Side Table	Nil	1997	2	BC	0	Regularly	
124	Working Table	Nil	1997	1	BC	0	Regularly	
125	Laboratory Sink	Nil	1997	2	BG	0	Regularly	
126	Laboratory Sink	Nil	1997	1	CB	X	Rarely	Leaking pipes
127	Laboratory Sink	Nil	1997	1	CG	0	Regularly	none
128	Laboratory Sink	Nil	1997	2	BC	0	Regularly	
129	Laboratory Sink 2 sink type	Nil	1997	1	BC	0	Regularly	

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	Item/Description	Model No.	Date Aquired					
130	Chemical Cabinet	Nil	1997	1	BC	0	Regularly	
131	Chemical Cabinet	Nil	1997	1	CB	0	Regularly	
132	Chemical Cabinet	Nil	1997	1	CG	0	Regularly	none
133	Chemical Cabinet	Nil	1997	4	BC	0	Regularly	
134	Stool	Nil	1997	8	BC	0	Regularly	
135	Air Conditioner, Separate-type	AS-2WM	1997	1	BG	0	Regularly	
136	Air Conditioner, Separate-type	AS-2WM	1997	1	CB			
137	Air Conditioner, Separate-type	AS-2WM	1997	1	CG	0	Regularly	none
138	Air Conditioner, Separate-type	AS-2WM	1997	1	BC	0	Regularly	
139	Air Conditioner, Separate-type	AS-1.5WM	1997	4	CB	0	Regularly	
140	Air Conditioner, Separate-type	AS-1.5WM	1997	4	CG	0	Regularly	none
141	Air Conditioner, Separate-type	AS-1.5WM	1997	6	BC	0	Regularly	
142	Fire Extinguisher (CO2 gas type)	YC - 10	1997	5	BG	X	Never	
143	Fire Extinguisher (CO2 gas type)	YC - 10	1997	5	CB	0	Never	
144	Fire Extinguisher (CO2 gas type)	YC - 10	1997	5	CG	0	Never	none
145	Fire Extinguisher (CO2 gas type)	YC - 10	1997	5	BC	0	Regularly	
146	Exhaust Fan	Nil	1997	6	BC	0	Regularly	
147	Fume Cupboard	1200NU	1997	1	BG	0	Regularly	
148	Fume Cupboard	1200NU	1997	1	CB	0	Regularly	No available filter replacement
149	Fume Cupboard	1200NU	1997	1	CG			
150	Fume Cupboard	1200NU	1997	1	BC	0	Rarely	
151	Emergency Shower	SE-690	1997	1	BG	0	Rarely	
152	Emergency Shower	SE-690	1997	1	CB	0	Never	
153	Emergency Shower	SE-690	1997	1	CG	0	Rarely	none

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154	Emergency Shower	SE-690	1997	1	BC	0	Rarely	
155	Folding table	TTC - 1847H - TM	1997	20	2nd			
156	Folding Chair	KKA - 260DB - Z9N3	1997	40	2nd			
157	Slide Projector	ONIGRAPHIC 253AF	1997	1	2nd			
158	Slide Projector	ONIGRAPHIC 253AF	1997	1	BG	0	Rarely	
159	Slide Projector	ONIGRAPHIC 253AF	1997	1	CB	0	Rarely	
160	Slide Projector	ONIGRAPHIC 253AF	1997	1	CG	0	Occasionally	none
161	Slide Projector	ONIGRAPHIC 253AF	1997	1	BC	0	Rarely	
162	Book Shelf	EDS - 16261 - TE	1997	4	RE	0	Regularly	
163	Book Shelf	EDS - 16261 - TE	1997	2	FO	0	Regularly	
164	OHP with Screen Set	EP - 7000	1997	1	CB	0	Rarely	Bulb easily busted
165	OHP with Screen Set	EP - 7000	1997	1	BG	0	regularly	Lamp always got busted
166	OHP with Screen Set	EP - 7000	1997	1	CP			
167	OHP with Screen Set	EP - 7000	1997	1	CG	X	Occasionally	No available spare halogen lamp (24V-25V, with cold mirror)
168	OHP with Screen Set	EP - 7000	1997	1	BC	0	Rarely	
169	Video Projection System	LC - 3310, MV 89, Others	1997	1	2nd			
170	Video Editing System	BR - S500U & Others	1997	1	2nd			
171	Computer Set	PC - 300	1997	3	RE	0	Regularly	
172	Computer Set	PC - 300	1997	1	BG	0	Regularly	

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	Item/Description	Model No.	Date Acquired					
173	Computer Set	PC - 300	1997	1	CB	0	Regularly	Upgrading needed
174	Computer Set	PC - 300	1997	1	CG			
175	Computer Set	PC - 300	1997	1	BC	X		Hard disk out of order
176	Facsimile	FAX - 2700L	1997	5	2nd			
177	Facsimile	FAX - 2700L	1997	5	BG	0	Regularly	
178	Facsimile	FAX - 2700L	1997	5	CB	0	Regularly	
179	Facsimile	FAX - 2700L	1997	5	CG	X	Regularly	Does not print, No toner available in the Phils.
180	Facsimile	FAX - 2700L	1997	5	BC	0	Regularly	
181	Hand Sprayer	SK - 10S	1997	1	AN			
182	Duster Knapsack type	G - 415C	1997	1	AN			
183	GC (ECD, Dual)	HP6890	1997	1	BG	0	Regularly	Minor problems on signal, chromatographic response; corrective measures applied; preventive maintenance always employed; availability of capillary columns/consumables
184	GC (ECD, Dual)	HP6890	1997	1	CB	0	Regularly	
185	GC (ECD, Dual)	HP6890	1997	1	CG	0	Regularly	Original main circuit board defective. Replaced with NPD Circuit Board since there are two NPDs
186	GC (ECD, Dual)	HP6890	1997	1	BC	*		Transferred to NPAL(4/04)
187	GC (ECD, Dual)	HP6890	1997	1	BG	0	Regularly	Minor problems on signal, chromatographic response; corrective measures applied; preventive maintenance always employed; availability of capillary columns/consumables
188	GC (ECD, Dual)	HP6890	1997	1	CB	0	Regularly	ECD 2 oven shutdown
189	GC (ECD, Dual)	HP6890	1997	1	CG	0	Occasionally	Used for Confirmatory Test
190	GC (NPD)	HP6890	1997	1	RE	X	Regularly	

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	Item/Description	Model No.	Date Acquired					
191	GC (NPD)	HP6890	1997	2	BG	0	Regularly	Minor problems on signal, chromatographic response; corrective measures applied; preventive maintenance always employed; availability of capillary columns/consumables
192	GC (NPD)	HP6890	1997	2	CB	0	Regularly	Front EPC disabled; electrometer fault
193	GC (NPD)	HP6890	1997	2	CG	X	Occasionally	Main circuit board transferred to ECD
194	GC (NPD)	HP6890	1997	1	BC	*		Transferred to NPAL(4/04)
195	GC (FPD)	HP - 5890Series II	1997	1	BG	0	Regularly	Minor problems on signal, chromatographic response; corrective measures applied; preventive maintenance always employed; availability of capillary columns/consumables
196	GC (FPD)	HP - 5890Series II	1997	1	CB	X	Regularly	Oven sensor & back detector shutdown
197	GC (FPD)	HP - 5890Series II	1997	1	CG	0	Regularly	none
198	GC (FPD)	HP - 5890Series II	1997	1	BC	0	Occasionally	
199	GC (FPD)	HP - 5890Series II	1997	1	RE	0	Regularly	
200	GC-MASS Spectrophotometer	HP - 6890/5973	1997	1	RE	0	Regularly	

General Annex 7.

Grant Aid Project Design Matrix for Evaluation (PDM_E)

Project Name: The Project for the Improvement of the National Monitoring Program on Pesticide Residue in Agriculture and the Environment and Pesticide Formulation (Grant-Aid) Duration: 1995 – 1996

Target Area: The Republic of the Philippines

Target Group: BPI staff, DA

NARRATIVE SUMMARY	OBJECTIVELY VERIFIABLE INDICATORS	MEANS OF VERIFICATION	IMPORTANT ASSUMPTIONS
<p>OVERALL GOAL Food production, pest and disease control in the Philippines is improved</p>	<p>BPI's current and immediate-future institutional, technical and financial capabilities (brought about by the grant) allows the network's effects to be sustained.</p>	<p><u>INSTITUTIONAL</u></p> <ul style="list-style-type: none"> • Organizational structure of national/central and satellite PALs (to check if all positions are manned) • H.R. Records of training (to check if a system for personnel skills enhancement/Training is in place) <p><u>FINANCIAL</u> Operating budgets for central & satellite PALs</p> <p><u>TECHNICAL</u> facilities inspection, inventory of equipment and status report</p>	<ol style="list-style-type: none"> 1. No major changes in the mandates and organizational structures of the DA as the responsible agency, BPI as the implementing agency and FPA as the regulatory agency 2. Legal/Policy framework for enforcing MRL is in place so that all sectoral stakeholders are cooperating 3. Public interest/attention on proper use of pesticides and their adverse effects to human life and the environment is sustained by media and other government institutions concerned. 4. Because of public vigilance, multinational lobby groups for pesticide imports, and even seed production, etc. are kept in check.

<p>PROJECT PURPOSE</p> <ul style="list-style-type: none"> To establish a National Network on Pesticide Residue Monitoring in agriculture and the environment and pesticide formulation. In the process, awareness on the proper use of pesticides and their adverse effects to human life and the environment will increase thus, the Maximum Residue Limits (MRLs) in the Philippines can be established. <p>Note: * network consists of the National PAL and the satellite PALs</p>	<ol style="list-style-type: none"> Equipment and facilities for monitoring pesticide residue in crops and grains and monitoring of pesticide formulation in good working condition Activities on monitoring pesticide residue in crops and grains are implemented continuously Activities on monitoring of pesticide formulation are implemented continuously Information on results of laboratory analysis are kept in good order 	<ol style="list-style-type: none"> Equipment Inventory Photo documentation Yearly work and financial plans of BPI Yearly work and financial plans of BPI Consolidated reports of laboratory analysis results 	<p>The equipment and facilities provided by the grant are not damaged by fire or acts of nature like typhoons, earthquakes, etc.</p>
<p>OUTPUTS</p> <ol style="list-style-type: none"> New buildings for central and satellite Pesticide Analytical Laboratories (PALs) in Davao and Pili, Camarines Sur constructed New equipment provided to new central and satellite PALs in Davao and Pili, Camarines Sur New equipment provided to existing PALs in Baguio, Cagayan de Oro and Cebu 	<ol style="list-style-type: none"> 1-1. Three (3) new PAL buildings constructed 1-2. Floor area of each new PAL building Type of equipment, number of units, date acquired, cost, condition and location (PAL or satellite PALs) of donated equipment Type of equipment, number of units, date acquired, cost, condition and location (PAL or satellite PALs) of donated equipment 	<ol style="list-style-type: none"> 1-1 Photo documentation of constructed PAL buildings 1-2 Building plans: floor plan Equipment Inventory Photo documentation Equipment Inventory Photo documentation 	<ol style="list-style-type: none"> Policy on management of PALs is defined Project counterparts (permanent staff) are assigned to the NPAL and the satellite PALs or to related posts in DA where they can use skills gained from the project Project counterparts undergo training or skills-upgrading in use and maintenance of the equipment and facilities BPI has system for operation and maintenance (O & M) and allocated budget for this

ACTIVITIES	INPUTS		
<ol style="list-style-type: none"> 1. Secure land for new PALs 2. Preparation of building plans for new PALs 3. Construction of a new central or National PAL (NPAL) in Quezon City and new satellite PALs in Davao and Pili, Camarines Sur 4. Preparation of renovation/expansion plans for existing PALs 6. Renovation or expansion of buildings of existing PALs in Baguio, Cagayan de Oro and Cebu to accommodate new equipment 7. Provision and installation of new equipment in National PAL in Quezon City and new satellite PALs in Davao and Pili, Camarines Sur and in existing PALs in Baguio, Cagayan de Oro and Cebu 9. Calibration of equipment in the NPAL and the satellite PALs 	<p>Japanese side:</p> <p>Provision of Facilities and Equipment =P331 M Japan's expenses for local costs Provision of Japanese technicians</p>	<p>Philippine side:</p> <ol style="list-style-type: none"> (1) Project Staff (2) Land (3) Budget for Operation and Maintenance of Facilities and Equipment, including budget for reagents (4) Project management-related cost 	<ol style="list-style-type: none"> 1. Proper staff allocation in the NPAL and satellite PALs 2. BPI allocates budget for the operation and maintenance of the facilities and equipment 3. The necessary building permits and clearances are acquired 4. BPI acquires the necessary electric and water connections <p>PRE-CONDITIONS</p> <ol style="list-style-type: none"> 1. GOP provides land for the buildings 2. GOP allocates the necessary budget for operation and maintenance of the facilities and equipment of the project, including electricity, water supply and other incidental facilities 3. DA, the responsible agency, BPI, the implementing agency, FPA, the regulatory agency and other relevant agencies understand the project well and perform their roles 4. DA allocates permanent staff as project counterparts at the NPAL and satellite PALs

General Annex 8.

Grant Aid Project Title: The Project for the Improvement of the National Monitoring Program on Pesticide Residue in Agriculture and the Environment and Pesticide Formulation

Implementing Organization: Bureau of Plant Industry, Department of Agriculture

Project Sites: Diliman, Quezon City; Bago Oshiro, Davao City; Guisad Valley, Baguio City; Pili, Camarines Sur; Mandaue City, Cebu and Macabalan, Cagayan de Oro City

Project Post Assessment

Evaluation Grid for Grant Aid

The evaluation grid attempts to evaluate the sustainability of the project in terms of the institutional or organizational, financial and technical aspects. The (a) institutional aspect consists of Project Status, Organizational Status, Policy Issues and PAL Development. The (b) financial aspect will cover current budget provided by Central BPI and DA Regional, income generated by PALs and funds needs of NPAL and PAL. The (c) technical aspect will cover status and condition of donated equipments/facilities through direct observation and equipment inventory (Ph 1 or Phase when applicable). The (d) will cover Feedback points based on Evaluation results for both Grant Aid and PTTC.

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
	GA- Grant Aid PRM- Pesticide residue monitoring PRA -Pesticide Residue Analysis PF – Pesticide formulation PU- Pesticide Usage TA – Technical Assistance O&M-Operating & Maintenance								
<u>A. Institutional Sustainability</u>	1. What are the major activities and status provided by the PAL site to date.							PAL Chief	
<i>1. Project Status</i>									

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
	GA- Grant Aid PRM- Pesticide residue monitoring PRA -Pesticide Residue Analysis PF – Pesticide formulation PU- Pesticide Usage TA – Technical Assistance O&M-Operating & Maintenance								
		What is the status of the Pesticide Residue Monitoring (PRM) in terms of number of samples analyzed before and after the grant aid (1997-2004)?	Number of analyzed samples, Number of determinations Number of Trials, Number of recovery trials. (1997-2004)	PRM Reports PR Profiles (1997-2004)				PAL Chief	
		What is the status of Farmers Surveys on Pesticide Usage during and after the GA?	Increase or Decrease of Farmers Surveys on PU? 1997 and 2004	Survey Reports 1997 and 2004				PAL Chief	
		What are Technical Assistance (TA) received by the PALs after the GA?	New trainings provided after GA	Types of Trainings and Contents				PAL Chief	

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
	GA- Grant Aid PRM- Pesticide residue monitoring PRA -Pesticide Residue Analysis PF – Pesticide formulation PU- Pesticide Usage TA – Technical Assistance O&M-Operating & Maintenance								
	2 Generally, is there an increase or decrease of PAL Activities after the GA?							PAL Chief	PAL staff
		If there was an increase, what are these new or related activities?	Inclusion of new or related activities in the annual workplan of BPI-PALs	Annual Report, Work Plan, PRM Profile and PRA Reports				PAL Chief	PAL staff
		If there was a decrease in the no. of activities, after the GA what are the terminated activities and why?	Termination of some project activities with the project termination	Annual Report, Work Plan, PRM Profile and PRA Reports				PAL Chief	PAL staff
		Is this increase or decrease of activities intended or unintended effects of the GA? Why?	Comparison of Annual Report and WFP (1997-2004)	Annual Report, Work Plan (1997-2004)				PAL Chief	PAL staff

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
	GA- Grant Aid PRM- Pesticide residue monitoring PRA -Pesticide Residue Analysis PF – Pesticide formulation PU- Pesticide Usage TA – Technical Assistance O&M-Operating & Maintenance								
2. <u>Organizational Status of PALs</u>	1. Is the number of personnel sufficient to continue the project activities?							PAL Chief	
		How many staff members are assigned to each PAL?	No. of staff in each PAL during and after the GA	Org Chart and Tasks No of Staff assigned in PRM and PRA during and after the GA				PAL Chief	
		What is the employment status of PAL Staff PALs (e.g., permanent, casual, contractual?)	Tenure and status employment status of PAL Chief and Staff	Classification of Staff of PALs according to employment status during and after the GA				PAL Chief	PAL Staff

	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
Criteria	GA- Grant Aid PRM- Pesticide residue monitoring PRA -Pesticide Residue Analysis PF – Pesticide formulation PU- Pesticide Usage TA – Technical Assistance O&M-Operating & Maintenance				Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
	Main Questions	Sub-questions							
	2. Are former project counterparts still with the BPI-PALs?							PAL Chief	
		If yes, how many of the former project counterparts remain with the BPI-PALs?	Change in the number of the former project counterparts during and after the GA	Names and no. of project counterparts during and after the GA	JICA - GOP project documents Personnel records of BPI-PALs			PAL Chief	PAL Staff
		If no, what are the reasons why former project counterparts are no longer with PALs	Change in the number of the former project counterparts during and after the project	Reasons why former project counterparts are no longer with the BPI-PALs				PAL Chiefs	PAL Staff

Criteria	Evaluation Questions		Achievement - Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
	GA- Grant Aid PRM- Pesticide residue monitoring PRA -Pesticide Residue Analysis PF – Pesticide formulation PU- Pesticide Usage TA – Technical Assistance O&M-Operating & Maintenance								
	3. Is there a system for technical training or upgrading the skills of staff members after the GA?							PAL Chief	
		If yes, please identify the type of training, no. of staff trained and the source/s of funds for the training	Status of implementation of tech trng and HRD program for PAls	No/ types/contents of Trainings and HRD programs for PAls				BPI Administrative Officer, PAL Chiefs	PAL Staff
		Are these tech and HRD trngs intended or unintended effect of the project and why?	Determine how Training Outputs are now mainstreamed in PAls	Reasons why HRD activities are an intended or unintended effect of the project				BPI Administrative Officer, PAL Chiefs	PAL Staff

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
	GA- Grant Aid PRM- Pesticide residue monitoring PRA -Pesticide Residue Analysis PF – Pesticide formulation PU- Pesticide Usage TA – Technical Assistance O&M-Operating & Maintenance								
<u>3. Policy Issues and PAL Development</u>	1. Were there changes in the DA- BPI –FPA after project completion in terms of mandate, policies and structure, among others?							DA Senior Official, e.g., Undersecretary or Asst Secretary in charge of BPI DA Reg Director FPA LSD Chief PAL Chiefs	
	2. Were there policy issues developed during the GA that were operationalized in PALs after the GA?							ditto	

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method			
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)
	GA- Grant Aid PRM- Pesticide residue monitoring PRA -Pesticide Residue Analysis PF – Pesticide formulation PU- Pesticide Usage TA – Technical Assistance O&M-Operating & Maintenance							
		If yes, what are the Implementing Guidelines (IG) that caused changes, terms of mandate, policies org structure reorganization?	Mandate, organizational structure and policy changes of the DA-BPI after the GA at the central and regional offices	1) Briefing kits and organizational profiles/charts of DA, BPI ,FPA (2) Policy /Memo issuances related to PRM and PF at the central and regional offices			DA Senior Official, e.g., Undersecretary or Asst Secretary in charge of BPI DA Reg Director FPA LSD Chief PAL Chiefs	

	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
Criteria	GA- Grant Aid PRM- Pesticide residue monitoring PRA -Pesticide Residue Analysis PF – Pesticide formulation PU- Pesticide Usage TA – Technical Assistance O&M-Operating & Maintenance				Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
	Main Questions	Sub-questions							
		Were these policy changes intended or unintended effects of the GA and why?	Change in the mandate, structure and policies of the DA- BPI after the project at the central and regional offices	1) Briefing kits and organizational profiles/charts of DA, BPI ,FPA (2) Policy /Memo issuances related to PRM and PF at the central and regional offices				DA Senior Official, e.g., Undersecretary or Asst Secretary in charge of BPI BPI Director LSD Chief PAL Chiefs	

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
	GA- Grant Aid PRM- Pesticide residue monitoring PRA -Pesticide Residue Analysis PF -- Pesticide formulation PU- Pesticide Usage TA – Technical Assistance O&M-Operating & Maintenance								
		If there were no changes in the DA-BPI-FPA in terms of mandate, policies and structure, what are the needed changes and why?	Needed changes in mandate, policies and structure of DA-BPI –FPA during and after the project	Proposed changes in the DA-BPI –FPA in terms of mandate, policies and structure,				DA Senior Official, e.g., Undersecretary or Asst Secretary in charge of BPI BPI Director FPA LSD Chief PAL Chiefs	
<u>B. Financial Sustainability:</u> <u>Financial Status NPAL and PALs</u>	1. Is the funding for continuing the project activities secured ? what is the source?							ditto	

	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
Criteria	GA- Grant Aid PRM- Pesticide residue monitoring PRA -Pesticide Residue Analysis PF – Pesticide formulation PU- Pesticide Usage TA – Technical Assistance O&M-Operating & Maintenance				Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
	Main Questions	Sub-questions							
		What is the budget (percentage allotted) for PAL sites from total BPI funding during and after the GA?	Identification /comparison of budgetary appropriation for BPI and PAL sites in % during and after the GA.	BPI and PAL budget from period 1997-2004)	Annual General Appropriations Act 1997-2004) Records BPI Budget Office			BPI Budget and Finance Officer	
		How much does BPI allocate for continuing project activities (PAL PRM,PRA and PF activities)	Percent of BPI budget that is allocated for each PALs	Budget of the NPAL and each satellite PAL	Annual General Appropriations Act after the project Records of BPI Budget Office Records of each PAL Office			BPI Budget and Finance Officer PAL Chief	

	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
Criteria	GA- Grant Aid PRM- Pesticide residue monitoring PRA -Pesticide Residue Analysis PF – Pesticide formulation PU- Pesticide Usage TA – Technical Assistance O&M-Operating & Maintenance				Lit Survey (LS)	Observa- tion (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
	Main Questions	Sub-questions							
		What is the proposed budget needed in each PAL to sustain ongoing activities after the GA (2003 & 2004)?	Analysis of WFPlan of each PAL based on services and area coverage	WFPla of NPAL and each satellite PAL	Financial Record each PAL 1997-2004			BPI Budget and Finance Officer PAL Chief	PAL STaff
	2. Does BPI have sufficient budget for operation and maintenance for donated equipment and facilities?							BPI Budget and Finance Officer PAL Chief	
		What is the source of O & M budget in each PAL?	Allocation of regular budget for O & M in PALS (1997-2004)	Budget for O & M in each PAL (1997-2004)	Records of BPI Budget Office Records of each PAL Office			BPI Budget and Finance Officer PAL Chief	

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
	GA- Grant Aid PRM- Pesticide residue monitoring PRA -Pesticide Residue Analysis PF – Pesticide formulation PU- Pesticide Usage TA – Technical Assistance O&M-Operating & Maintenance								
	3. Does each PAL earn revenues from the use of donated facilities and equipment?							BPI Budget and Finance Officer PAL Chief	
		If yes, how much do these amount to?	Trend of Revenue collections from PAL services (1997-2004)	Revenues earned from the use of donated facilities and equipment 1997-2004	Records of fees and charges collected for PAL services during and after the project			PAL Chief	
		If yes, can these revenues be used for PAL O & M and lab supplies?	Existence or non-existence of policies on the use of the collected revenues	Policies on the system of collection, remittance and use of revenues generated	Dept of Budget & Mgmt policies BPI Budget Office records			LSD Chief PAL Chiefs	

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
		If no, why?		Policies on the system of collection, remittance and use of revenues generated	Dept of Budget & Mgmt policies BPI Budget Office records			LSD Chief PAL Chiefs	
		What mechanisms or policy interventions are needed to sustain the PALs?	Mechanisms or policies to sustain the O & M of PALs	Proposed Mechanisms or policy interventions to fund O & M of PALs				BPI Director BPI Budget Officer LSD Chief PAL Chiefs	
<u>C. Technical Sustainability: Status And Utilization Of Donated Facilities And Equipment</u>	1. Are the facilities and equipment provided by the project still being used to implement project activities?		Condition of donated facilities and equipment based	Completed JICA Equipment Inventory Sheet (Phase 1 and 2)				PAL Chief	PAL Staff

	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
Criteria	GA- Grant Aid PRM- Pesticide residue monitoring PRA -Pesticide Residue Analysis PF – Pesticide formulation PU- Pesticide Usage TA – Technical Assistance O&M-Operating & Maintenance				Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
	Main Questions	Sub-questions							
		If yes, how many are still being used?	Comparison of the number donated facilities and equipment used during the project and those still being used after the project	Name of equipment still being used, no. of units, date acquired, location (NPAL or PALs)	Project documents Records of the BPI Property Office	NPAL and satellite PALs and equipment: Equipment Inventory Sheet	PAL Staff	PAL Chief	
		If no, how many are no longer being use and why?	Comparison of the number donated facilities and equipment used during the project and those no longer being used after the project	Name of equipment no longer used, no. of units, date acquired, location (NPAL or sat. PALs) Reasons why some equipment are no longer used	-do-	-do-	PAL Staff	PAL Chief	

	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
Criteria	GA- Grant Aid PRM- Pesticide residue monitoring PRA -Pesticide Residue Analysis PF – Pesticide formulation PU- Pesticide Usage TA – Technical Assistance O&M-Operating & Maintenance				Lit Survey (LS)	Observa- tion (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
	Main Questions	Sub-questions							
	2. What are the utilization capacities of donated facilities & equipment?		Percentage of facilities and equipment under the project that are still working and not working out of the total	Name of equipment, no. of units, date acquired, location, condition (working or not working) Reasons why some equipment are no longer working	-do-	-do-	PAL Staff	PAL Chief	

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
	3. Does BPI have a system for operation and maintenance (O&M) of donated facilities and equipment?	If yes, what is the current O&M system in the PALs?	Frequency of use of donated facilities and equipment by major type of equipment	Name of equipment, no. of units, date acquired, location, condition (working or not working), frequency of use of donated facilities and equipment	-do-	-do-		PAL Chief	PAL Staff
		If yes, is there a designated group or person in charge of O & M?	Designation of O & M focal person or group	Name, designation and duties of designated O & M focal person or group	Documents designating the O & M focal person			PAL Chief	PAL Staff
		What are the	Identification	Current				PAL Chief	PAL Staff

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
		common O & M problems being encountered after the project?	of common O & M problems after the project and proposed solutions	problems in the O & M System of the PALs and proposed solutions to improve the situation					
<u>D. Feedback Points based on evaluation results of Grant Aid and PTTC</u>	1. What are the necessary improvements (institutional, technical and financial) needed to sustain GA gains?							DA Senior Official, e.g., Undersecretary or Asst Secretary in charge of BPI BPI Director FPA LSD Chief PAL Chiefs	PAL Staff
		Did your agency identify and address	Agency issues at the central and regional	Problems encountered by former	BPI-PAL project documents			ditto	PAL Staff

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Interview (KI)	FGD
		specific issues during the GA? After the GA?	office levels and how these could be prevented in the future	project counterparts and measures adopted					
		Were the measures adopted by your agency sufficient to address the identified issues?	Measures adopted to address the problems		BPI-PAL project documents			ditto	PAL Staff

General Annex 9.

PTTC Project Title: The Pesticide Monitoring System Development Project.

Implementing Organization: Bureau of Plant Industry, Department of Agriculture

Project Sites: Diliman, Quezon City; Bago Oshiro, Davao City; Guisad Valley, Baguio City; Pili, Camarines Sur; Mandaue City, Cebu and Macabalan, Cagayan de Oro City

Evaluation Grid for PTTC

The evaluation grid attempts to evaluate the sustainability of PMDP based on JICA’s Main Evaluation questions as listed in the Scope of Work. Moreover, the Policy, Cultural, Economic, Organizational , Environment Viewpoints are incorporated in the grid as stated in JICA’s Ex Post Evaluation Guidelines. These viewpoints will be part of the ex post evaluation analysis on “ factors that contribute/inhibit” on the sustainability of PMDP.

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Inter-view (KI)	FGD
	Note: BPI – Bu. Of Plant Industry FPA- Fertilizer & Pesticide Authority PRM- Pesticide Residue Monitoring PRA- Pesticide Residue Analysis PF – Pesticide Formulation SPRT-Supervised Pesticide Residue Trial PMDP-Pesticide Monitoring System Development Project WFP – Work & Financial Plan PAL – Pesticide Analytical Lab. MRL – Maximum Residue Level								
<u>A. Technical Sustainability: Status on Methods Of Analysis & Technologies of the Implementing Agency and its stakeholders.</u>	1 Has the capability on analysis of pesticide in agricultural crops in your PAL improved after PMDP?	What pesticide residues are covered by the PMDP?	Compare capacities prior and after PMDP through list of increased services	List of new services offered by PAL				PAL Chief	PAL Staff

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Inter-view (KI)	FGD
	Note: BPI – Bu. Of Plant Industry FPA- Fertilizer & Pesticide Authority PRM- Pesticide Residue Monitoring PRA- Pesticide Residue Analysis PF – Pesticide Formulation SPRT-Supervised Pesticide Residue Trial PMDP-Pesticide Monitoring System Development Project WFP – Work & Financial Plan PAL – Pesticide Analytical Lab. MRL – Maximum Residue Level								
		What pesticide formulations were covered by PMDP?		PAL achievement Reports and PF Reports				PAL Chief	PAL Staff
		How many new methods of analysis have been developed for pesticide residues and formulated products during and after the PMDP?	No and type of new crops and formulated products	PRA Reports PF reports				PAL Chief	PAL Staff
		Are these methods sustained after the Project?	Compare achievement ratio and rates at each PAL	PRA Reports PF reports				PAL Chief	PAL Staff
		Does the BPI have a system in sustaining analysis of agricultural crops and formulated products?	No of crops and active ingredients Through Residue Profiles	Residue Profile Reports PF Reports				PAL Chief	PAL Staff
		If yes, what are the measures undertaken in your PAL for PRA and PF?	PAL Trends in PAL and PF	Residue Profile Reports PF Reports				PAL Chief	PAL Staff

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Inter-view (KI)	FGD
	Note: BPI – Bu. Of Plant Industry FPA- Fertilizer & Pesticide Authority PRM- Pesticide Residue Monitoring PRA- Pesticide Residue Analysis PF – Pesticide Formulation SPRT-Supervised Pesticide Residue Trial PMDP-Pesticide Monitoring System Development Project WFP – Work & Financial Plan PAL – Pesticide Analytical Lab. MRL – Maximum Residue Level								
		What were your accomplishment In terms of specific improvement/s in each method?	Compare WFP during and after PMDP	WFP submitted 2002-2004				PAL Chief	PAL Staff
		How many farmers are covered in your monitoring activities on an annual basis?	Comparison of farmer clientele	PRMonitoring Report	Annual Report			PAL Chief	PAL Staff
		In general, is your monitoring system sustainable based on priority crops and annual performance targets?	Comparison of samples that passed the MRL standards	PRMonitoring Report					
		If yes, what strategies/ mechanisms are being undertaken at present to sustain the existing PRM system?							

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Inter-view (KI)	FGD
		If no, what strategies/mechanisms do you recommend in order to sustain PRM system?							
<u>B. Impact</u>	Is the over all goal of "supplying safe food within tolerable levels of pesticide residue to the market" being achieved?	What agricultural crops with positive(+) pesticide residues are classified as exceeding MRL levels during and after PMDP?	List of crops with MRL level	PRMonitoring Report				NPAL Chief PAL Chief	NPAL Staff PAL Staff
		What agri crops are classified as exceeding MRL levels?	List of crops and their MRL levels	PRMonitoring Report				NPAL Chief PAL Chief	NPAL Staff PAL Staff
		What are the non green label pesticides that are still be sold in the market or used by farmers?	List of pesticides with questionable active ingredients	PRMonitoring Report				NPAL Chief PAL Chief	NPAL Staff PAL Staff

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Inter-view (KI)	FGD
	<p>Note: BPI – Bu. Of Plant Industry FPA- Fertilizer & Pesticide Authority PRM- Pesticide Residue Monitoring PRA- Pesticide Residue Analysis PF – Pesticide Formulation SPRT-Supervised Pesticide Residue Trial PMDP-Pesticide Monitoring System Development Project WFP – Work & Financial Plan PAL – Pesticide Analytical Lab. MRL – Maximum Residue Level</p>								
	Has PMDP contributed to the achievement of the overall goal of providing safe food to the market?		Comparative Analysis of PR Reports (2002-2004)	Recent Studies and PRA and PR Monitoring Reports				DA Senior Official, e.g., Undersecretary or Asst Secretary in charge of BPI DA Reg. Dir. FPA Regional Office LSD Chief PAL Chiefs NPAL Chief PAL Chief	NPAL Staff PAL Staff
		Are there external factors that influenced the achievement of the over all goal of PMDP?	Discussion on external factors and their influence on over all goal	Consumer Reports Chambers of Commerce and Exporters Association				ditto	NPAL Staff PAL Staff
		If yes, what are these external factors?	Discussion on external factors and their influence on over all goal	Consumer Reports Chambers of Commerce and Exporters Association					

	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
Criteria	Note: BPI – Bu. Of Plant Industry FPA- Fertilizer & Pesticide Authority PRM- Pesticide Residue Monitoring PRA- Pesticide Residue Analysis PF – Pesticide Formulation SPRT-Supervised Pesticide Residue Trial PMDP-Pesticide Monitoring System Development Project WFP – Work & Financial Plan PAL – Pesticide Analytical Lab. MRL – Maximum Residue Level				Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Inter-view (KI)	FGD
	Main Questions	Sub-questions							
	What are the directly observable impact/s of the PMDP?		Discuss positive and negative impacts including unintended ones.	Consumer Reports Chambers of Commerce and Exporters Association NGO Technical Reports				ditto	NPAL Staff PAL Staff
<u>C. Institutional Sustainability</u>	Has the BPI and FPA) been able to sustain outcomes/effects of PMDP?		Discuss safe food levels after PMDP ended (2004)	BPI and FPA Annual Reports List of Pesticide trade Bans Memos and Circulars BPI and FPA FAO Reports				DA Senior Official, e.g.; Undersecretary or Asst Secretary in charge of BPI DA Reg. Dir. FPA Regional Office LSD Chief PAL Chiefs NPAL Chief PAL Chief	
		What are the internal and external factors in BPI and FPA that have positively (or negatively) contributed to Project performance?	Analysis of IRR issued by BPI and FPA to support PMDP	List of BPI and FPA Annual Reports Memos and Circulars Issued				ditto	

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Inter-view (KI)	FGD
	Note: BPI – Bu. Of Plant Industry FPA- Fertilizer & Pesticide Authority PRM- Pesticide Residue Monitoring PRA- Pesticide Residue Analysis PF – Pesticide Formulation SPRT-Supervised Pesticide Residue Trial PMDP-Pesticide Monitoring System Development Project WFP – Work & Financial Plan PAL – Pesticide Analytical Lab. MRL – Maximum Residue Level								
		Is there a better operating system in the PRM and PF between FPA and BPI central and regional offices?	Analysis of Systems and Procedures Adopted in PM and Systems Development	Memos and Circulars Issued Reporting Management System (Central and Regional BPI and FPA)				ditto	NPAL and PAL staff
		If yes, please identify these "better operating system/s"							
		If no, what "better operating system/s: do you recommend for adoption by BPI & FPA central and regional offices?	Analysis of Systems and Procedures Adopted in PM and Systems Development	Memos and Circulars Issued Reporting Management System (Central and Regional BPI and FPA)					
	Are the outcomes/effects of PMDP sustainable?		Analysis and Discussion of PMDP targets and service delivery	Reporting Systems between Central and Regional for BPI and FPA				ditto	NPAL and PAL staff

Criteria	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
	Main Questions	Sub-questions			Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Inter-view (KI)	FGD
	Note: BPI – Bu. Of Plant Industry FPA- Fertilizer & Pesticide Authority PRM- Pesticide Residue Monitoring PRA- Pesticide Residue Analysis PF – Pesticide Formulation SPRT-Supervised Pesticide Residue Trial PMDP-Pesticide Monitoring System Development Project WFP – Work & Financial Plan PAL – Pesticide Analytical Lab. MRL – Maximum Residue Level								
		<i>Technical:</i> What are the indicators and measurements formulated by BPI and FPA that could validate that safe food is available within tolerable levels based on PRA and PM?	Consolidated Data Analysis of PAL sites on MRL levels that conform to CODEX standards	PRA and PRM Reports Nationwide based on Prime Agriculture Crops				ditto	NPAL and PAL staff
		<i>Institutional:</i> What measures have the BPI and FPA undertaken as a joint endeavor to improve Systems monitoring and pesticide formulation at national target levels?	Consolidated Systems Analysis of BPI and FPA tasks in systems monitoring and PFormulations	Minutes of Joint BPI and FPA Meetings after PMDP				ditto	NPAL and PAL staff

	Evaluation Questions		Achievement Criteria/ Measures	Data Needed	Data Source/Data Collection Method				
Criteria	Note: BPI – Bu. Of Plant Industry FPA- Fertilizer & Pesticide Authority PRM- Pesticide Residue Monitoring PRA- Pesticide Residue Analysis PF – Pesticide Formulation SPRT-Supervised Pesticide Residue Trial PMDP-Pesticide Monitoring System Development Project WFP – Work & Financial Plan PAL – Pesticide Analytical Lab. MRL – Maximum Residue Level				Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Inter-view (KI)	FGD
	Main Questions	Sub-questions							
		<i>Financial:</i> Was the funding provided by BPI and FPA as planned in the Post Project phase based on the Minutes of Discussion between GOP and GOJ?	Analysis of GOP Funds Provided after PMDP	Allocations Provided by BPI and FPA to central and regional offices after PMDP				ditto	BPI and FPA Budget Officers NPAL and PAL staff
		If yes, how much?		Allocations Provided by BPI and FPA to central and regional offices after PMDP				ditto	BPI and FPA Budget Officers
		If no, where did the funding come from? And how much?	Analysis of GOP Funds Provided after PMDP	Allocations Provided by BPI and FPA to central and regional offices after PMDP					BPI and FPA Budget Officers

Criteria	Note: BPI – Bu. Of Plant Industry FPA- Fertilizer & Pesticide Authority PRM- Pesticide Residue Monitoring PRA- Pesticide Residue Analysis PF – Pesticide Formulation SPRT-Supervised Pesticide Residue Trial PMDP-Pesticide Monitoring System Development Project WFP – Work & Financial Plan PAL – Pesticide Analytical Lab. MRL – Maximum Residue Level				Lit Survey (LS)	Observation (OS)	Quest. Survey (QS)	Key Informant Inter-view (KI)	FGD
	Main Questions	Sub-questions							
<u>D. Overall Sustainability</u>	What are the factors that contributed / inhibited the sustainability of PMDP's outcomes and effects?								
		If General Appropriations Act (GAA) funds are limited at the Post-Project Phase, what other revenue generating activities can be undertaken?		Data on Annual Budget for 1997-2004 Data on Income Generated revenue					Abpi and FPA Budget Officers NPAL Chief and PAL Staff
		What is the proposed budget needed to maintain the NPAL and its PAL sites?							

General Annex 10.

ANNEX 1. Project Design for Evaluation (PDM)

Project Name: Pesticide Monitoring System Development in the Republic of the Philippines

Duration: March 1997 to February 2002

Target Area: The Republic of the Philippines

Target Group: BPI's and FPA's Staff

NARRATIVE SUMMARY	OBJECTIVE VERIFIABLE INDICATORS	MEANS OF VERIFICATIONS	IMPORTANT ASSUMPTION
<p>OVERALL GOAL Safe food within tolerable levels of pesticide residue is supplied to the market.</p>	<ul style="list-style-type: none"> Necessary measure such as trading ban can be taken when the crops of which the pesticide residue level exceeds the MRLs. 	<ul style="list-style-type: none"> DA's quarterly statistics Records on the trading ban 	<ol style="list-style-type: none"> Abnormal weather does not affect the target areas. Unregistered pesticide formulations are not imported illegally. Imported crops are inspected regularly
<p>PROJECT PURPOSE To develop a comprehensive system for monitoring pesticide residues and pesticide formulation</p>	<ol style="list-style-type: none"> Information on the registered pesticide is kept in good order. Pesticide Residue Monitoring and activities to disseminate the safe and proper use of the pesticide are implemented continuously. Systematic and scientific monitoring of pesticide is implemented continuously. Systematic SPRT is implemented continuously. 	<ul style="list-style-type: none"> Results of Pesticide Residue Monitoring in the crops. Records of detection of the crops of which the pesticide residue level exceeded the MRL on the trading ban. Records of the pesticide formulation analysis. 	<ol style="list-style-type: none"> PAL's technical staff and field staff are properly allocated. The farmers use the pesticide in a safe and proper manner.
<p>OUTPUTS</p> <ol style="list-style-type: none"> Capability on pesticide residue and pesticide formulation analysis is improved. Methods of Technology Supervised Pesticide Residue Trials in crops (SPRT) are improved. Methods of Pesticide Residue Monitoring (PRM) are improved. Necessary information to establish MRLs and a safe use direction of pesticide are provided to the relevance agencies. Activities to disseminate safe banding and proper use of pesticide are improved. 	<ol style="list-style-type: none"> 1-1. All the PAL staff in charge of the residue analysis can analyze the pesticide in 29 crops by 14 methods newly introduced. 1-2. All the PAL staff in charge of the residue analysis can analyze 14 pesticide in 5 crops by the methods for Multi Residue Analysis newly introduced. 1-3. All the PAL Staff in charge of the formulation analysis can analyze 31 active ingredients by 12 methods using the HPLC. 9 methods using the GC and methods of titration and colorimetry. 1-4. All the pesticide formulations registered in the Philippines can be analyzed. 2-1 FPA Staff is able to prepare guidelines for the SPRT. 2-2 BPI staff are entrusted to the SPRT by pesticide formulation manufacturers on contract and is able to conduct the SPRT compatible to the international requirements. 3. The C/P in charge can conduct the Pesticide Residue Monitoring Survey for priority combinations of 5 crops and 14 pesticide in cooperation with the safe line PALs 4. The C/P in charge (mainly FPA staff) understand the current situation of farmers. And prepare information necessary to the manufactures, dealers and the farmers and provide it to the relevant agencies. 5-1 The C/P in charge (mainly FPA staff) understand the current situation of farmers and prepare information necessary to the manufactures, dealers and the farmers and provide it to the relevant agencies. 5-2 The C/P can prepare the training programs for the relevant agencies to conduct the training course 	<ol style="list-style-type: none"> 1 Questionnaire to the C/P on the analytical skill 1 PALS records of analysis 1 Records of the training course 1 Situation of the manuals preparation 1 Identification of the reports to the FPA 2 Questionnaire to the C/P on capability of guideline preparation and evaluation of the results 2 Records of the SPRT 2 Situation of the manuals preparation 3 Situation of the manuals preparations of the Pesticide Residue Monitoring 3 Identification of staff allocation and implementation organization 3 Records of the Pesticide Residue Monitoring Survey 4 Questionnaire to the C/P on the procedure to establish the MRLs 4 Identification of the information provided to the relevant agencies. 5 Records of questionnaire survey of the farmers 5 Identification of information provided to the manufactures, dealers and the farmers 5 Training programs and seminars texts for the relevant agencies 	

ACTIVITIES	INPUTS	
<p>i-1 To introduce more appropriate methods to analyze pesticide residue.</p> <p>1) Acquisition of skills in operating new instruments which provided by the Grant Aid.</p> <p>2) Introduction of extraction and clean-up methods.</p> <p>3) Introduction of methods for Multi-Residue Analysis.</p> <p>i-2 To update and prepare manuals for the residue analysis.</p> <p>i-3 To introduce more appropriate methods to analyze pesticide formulations.</p> <p>1) Acquisition of skill in operating new analysis instruments which were provided by Japanese Grant Aid.</p> <p>2) Introduction of appropriate methods for chemical and physical analysis.</p> <p>3) Monitoring of pesticide formulations</p> <p>1-4 To update and prepare manuals for the formulation analysis.</p> <p>1-5 Training of the staff to analyze the pesticide residue and pesticide formulations.</p> <p>2-1 Determination of priority combinations of crops and pesticides.</p> <p>2-2 Introduction of appropriate methods and technology of the Supervised Pesticide Residue Trials in crops (SPRT).</p> <p>2-3 Training of staff in charge of the SPRT.</p> <p>2-4 Preparation of manuals for the SPRT.</p> <p>3-1 Introduction of more appropriate methods for the Pesticide Residue Monitoring.</p> <p>1) Review of current methods for sampling</p> <p>2) Review of methods for the pesticide monitoring in other countries</p> <p>3) Improvement of methods for the Pesticide Residue Monitoring (FPA and BPI jointly determine the pesticide and crops to be analyzed and require the budget)</p> <p>4-1 Introduction of more appropriate methods to estimate the Food Factors from the National Food Consumption Survey in order to establish MRLs.</p> <p>4-2 Estimation of the Food Factors to establish MRLs</p> <p>4-3 Scientific advice to the relevant agencies to establish MRLs and to prepare the safe use direction of pesticides.</p> <p>5-1 Planning and designing training program for the safe use of pesticides.</p> <p>5-2 Preparation of information on the safe use of pesticides.</p> <p>5-3 Planning of training to promote safe use of pesticide and its implementation.</p>	<p>Japanese Side:</p> <p>(1) Dispatch of Long-term Experts</p> <p>1) Team Leader: 60.0 M/M</p> <p>2) Project Coordinator: 60.3 M/M</p> <p>3) Pesticide Residue Analysis: 34.7 M/M</p> <p>4) Pesticide Formulation Analysis: 24.0 M/M</p> <p>5) Supervised Pesticide Residue Trials in Crops: 60.8 M/M</p> <p>6) Dissemination of Safe Use of Pesticide: 41.8 M/M</p> <p>(2) Dispatch of Short-term Experts</p> <p>1) Pesticide Residue Analysis: 4.0 M/M</p> <p>2) Pesticide Formulation Analysis: 4.0 M/M</p> <p>3) Supervised Pesticide Residue Trials in Crops: 2.0 M/M</p> <p>4) Pesticide Residue Monitoring: 8.5 M/M</p> <p>5) Dissemination of Safe Use of Pesticide: 5.3 M/M</p> <p>6) MRL establishment: 3.0 M/M</p> <p>7) Registration System: 2.0 M/M</p> <p>8) Project Evaluation by PCM: 3.4 M/M</p> <p>(3) Acceptance of Philippines Counterparts C/P training in Japan: Total 31.6 M/M for 17 persons.</p> <p>(4) Provision of Machinery and Equipment (Million JPY)</p> <p>1) Provided Equipment: 108.016</p> <p>2) Accompanied Equipment: 10.421</p> <p>3) Japan's expenses for local cost: 53.127</p>	<p>Philippine Side:</p> <p>(1) Project Staff</p> <p>1) Project Director</p> <p>2) Deputy Project Director</p> <p>3) Project Manager</p> <p>4) Research Staff and Other Administrative Staff</p> <p>(2) Land, Buildings, Facilities and Equipment</p> <p>(3) Budget for Project Management and Running including the budget to purchase reagents.</p> <p>(4) Experiments Fields for the Supervised Pesticide Residue Trials in Crops</p> <p>* Figures to be provided at the end of the Project</p> <p>1. Necessary number of staff are allocated in to the project</p> <p>2. PALS technical staff and field staff are properly allocated</p> <p>3. Necessary material and utilities such as reagents, electricity, water, gas, etc. are supplied in a secure condition.</p> <p>4. Experimental field for the supervised pesticide residue trials in crops are available and well maintained</p> <p>5. Staff to deliver information to the farmer are available</p> <p>PRE-CONDITIONS</p> <p>1. Budget and staff allocated to the FPA and the BPI</p> <p>2. PALS are constructed and equipment are installed on schedule by the Grant Aid</p> <p>3. The relevant agencies understand the Project well and play each role required.</p>

General Annex 11.

Department of Agriculture
 Bureau of Plant Industry
 RP-Japan Pesticide Monitoring System Development Project (PMDP)

**COMPARISON OF CY 1997-2003 Budget
 Regular & Foreign Assited Fund
 (Peso Counterpart)**

Budgetary Requirements ('000)						
Year	Regular			FAPs (Peso Counterpart)		
	PS	MOOE	TOTAL	PS	MOOE	TOTAL
1996	1,041	1,673	2,714	-	-	-
1997	1,222	1,873	3,095	-	1,520	1,520
1998	1,640	1,889	3,529	-	3,000	3,000
1999	1,555	5,190	6,745	-	3,000	3,000
2000	1,682	8,068	9,750	-	11,682	11,682
2001	1,689	6,336	8,025	-	11,907	11,907
2002	1,880	6,125	8,005	-	1,000	1,000
2003	1,807	6,125	7,932	-	-	-
TOTAL	12,516	37,279	49,795	-	32,109	32,109

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