ANNEX N. PROJECT IMPLEMENTATION AND COST ESTIMATE

N.1 Basic Development Plan

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TABLE N.1-1 PROJECT FEATURES FOR 12 MODEL AREAS AND THEIR COSTS

Item	Sappaac (Region-CAR)		Talugtog ARC (Region-1)		Cotcaville ARC (Region-2)		Montalbia ARC (Region-3)		Mauleewn ARC (Region-4)		Pagasa ARC (Region-5)		Adiarra Estate (Region-6)		San Vicente ARC (Region-7)		Marangog ARC (Region-8)		Silas ARC (Region-10)		Kipalili ARC (Region-11)		Mat-i ARC (Region-13)	
1. Areas, Population and Farm Household																								
1.1 Areas (ha)																								
a) Study Areas	375		167		490		108		321		307		289		375		330		173		327		200	
b) Ratio of Area less than 18% of Land Slope (%)	71		77		88		95		70		81		24		65		46		55		38		30	
c) Proposed Cultivation Area (lessthan 30%)	310		145		428		99		266		246		108				210		114		121		115	
1.2 Population																								
a) Total Population	1,159		696		808		2,611		1,700		817		2,219		2,388		1,503		1,616		2,468		3,181	
b) Farm Household (Barangay)	189		183		109		479		302		142		409		432		247		327		423		560	
c) Farm Household (Study Area)	189		139		179 *		63		287		120		114		279		247		115		119		150	
Permanent	179(95%)		110(79%)		121(68%)		16(25%)		219(76%)		120(100%)		76(67%)		190(68%)		238(96%)		3(3%)		117(98%)		0(0%)	
Transient	10		29		58		47		68		0		38		89		9		112		2		150	
1.3 Proposed Main Crop	Paddy Rice		Paddy Rice		Corn, Banana		Mango, Vegetable		Citrus, Coconut		Coconut, Coffee		Coconut, Banana		Corn, Coconut		Coconut, Corn		Corn, Mango		Corn, Mango		Coconut, Banana	
2. Agricultural and Rural Infrastructural Facilities	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
2.1 Construction Costs		(P'000)		(P'000)		(P'000)		(P'000)		(P'000)		(P'000)		(P'000)		(P'000)		(P'000)		(P'000)		(P'000)		(P'000)
a) Agricultural Development																								
1) Nursery	0.05 ha	161	0.15 ha	2,058	0.05 ha	161	0.15 ha	2,058	0.15 ha	2,058	0.15 ha	2,058	0.15 ha	2,058	0.15 ha	2,058	0.05 ha	161	0.05 ha	161	0.15 ha	2,058	0.15 ha	2,058
2) Training & On-farm Demonstration Farm	1 place	195	1 place	812	1 place	195	1 place	812	1 place	812	1 place	812	1 place	812	1 place	812	1 place	195	1 place	195	1 place	812	1 place	812
3) Livestock Dispersal	15 heads	300	10 heads	200	15 heads	300	5 heads	100	15 heads	300	15 heads	300	15 heads	300	15 heads	300	15 heads	300	15 heads	300	15 heads	300	15 heads	
4) Animal Breeding Center	50 sq.m	215	20 sq. m	110	50 sq. m	215	20 sq.m	110	20 sq.m	110	20 sq.m	110	20 sq.m	110	20 sq.m	110	50 sq.m	215	50 sq.m	215	20 sq.m	110	20 sq.m	110
5) Poultry Incubator	1 unit	80	1 unit	80	1 unit	80	1 unit	80	1 unit	80	1 unit	80	1 unit	80	1 unit	80	1 unit	80	1 unit	80	1 unit	80	1 unit	80
Sub-Total		951		3,260		951		3,160		3,360		3,360		3,360		3,360		951		951		3,360		3,060
b) Agricultural Infrastructure Development																								
1) Irrigation Development	1 SWID	5,635	20 wells	3,000	1 SWID	2,794	Tank(7ha)	1,400	1 SWID	5,660	1 SWID	5,356	-	-	1 SWID	5,290	1 intake	6,899	2 intake	3,403	1 intake	1,456	-	-
2) Drainage Improvement	1,200 m	299	44 ha	660	600 m	165	7 ha	105	20 ha	300	12 ha	180	-	-	10 ha	150	-	-	1,480 m	899	12 ha	180	-	-
3) Farm Roads Development	3.3 km	5,750	3.0 km	2,700	8.7 km	12,914	2.6 km	3,860	2.8 km	4,040	5.5 km	8,250	-	-	4.8 km	5,460	3.2 km	6,398	2.7 km	5,075	6.6 km	8,720	-	-
4) Farm Land Conservation	-	-	20 ha	400	-	-	10 ha	200	30 ha	600	30 ha	600	30 ha	600	40 ha	800	-	-	-	-	30 ha	600	20 ha	400
Sub-Total		11,684		6,760		15,873		5,565		10,600		14,386		600		11,690		13,257		9,407		10,956		400
c) Rural Infrastructure Development																								
1) Rural Roads Development	6.8 km	11,513	1.5 km	22,800	3.6 km	8,872	4.0 km	19,700	5.0 km	21,500	11.0 km	28,100	12.2 km	41,560	10.0 km	30,400	4.6 km	17,581	LS	600	8.0 km	25,300	2.5 km	7,700
2) Rural Water Supply Development	9 places	2,160	5 places	1,450	-	-	3 places	760	4 places	1,160	9 places	2,160	5 places	1,520	2 places	480	1 place	1,450	5 places	1,200	7 places	1,680	-	-
3) Other Social Infrastructure	LS	500	LS	1,150	LS	460	LS	280	LS	270	LS	960	LS	810	LS	1,000	LS	430	LS	1,430	LS	1,250	LS	100
4) Rural Electrification	-	-	-	-	-	-	4.0 km	1,200	-	-	-	-	5.5 km	1,650	-	-	-	-	3.5 km	1,050	9.0 km	2,700	-	-
5) Strengthening Motor Pool for O & M works	LS	15,000			LS	15,000											LS	15,000	LS	15,000				
Sub-Total		29,173		25,400		24,332		21,940		22,930		31,220		45,540		31,880		34,461		19,280		30,930		7,800
d) Post-Harvest & Agro-Industry Facilities																								
1) Agricultural Machinery	LS	33	LS	202	LS	1,545	LS	1,585	LS	172	LS	30	LS	30	LS	172	LS	57	LS	51	LS	45	2 places	
2) Post Harvest & Agro-Industry Facilities	2 places	2,593	1 places	1,454	2 places	4,327	1 place	758	3 places	1,986	2 places	1,584	2 places	1,506	1 place	2,100	2 places	1,630	1 place	2,223	3 places	1,970		772
Sub-Total		2,626		1,656		5,872		2,343		2,158		1,614		1,566		2,272		1,687		2,264		2,015		772
e) Institutional Development																								
1) Community Development Program	1 place	670	1 place	670	1 places	670	1 place	670	1 place	670	1 place	670	1 place	670	1 place	670	1 place	670	1 place	670	1 place	670	1 place	670
Sub-Total		670		670		670		670		670		670		670		670		670		670		670		670
TOTAL		45,104		37,746		47,698		33,678		39,718		51,250		51,736		49,872		51,026		32,592		47,931		12,702
2.2 Community Development & Support Services	LS	3,842				3,842											LS	3,842	LS	3,842				
TOTAL		3,842				3,842												3,842		3,842				
2.3 Associated Costs																								
a) Pre-Engineering Cost (5% of 2.1)	LS	2,255	LS	1,887	LS	2,385	LS	1,684	LS	1,986	LS	2,563	LS	2,587	LS	2,494	LS	2,551	LS	1,630	LS	2,397	LS	635
b) Administration Cost (10% of (2.1+2.2))	LS	4,895	LS	3,775	LS	5,154	LS	3,368	LS	3,972	LS	5,125	LS	5,174	LS	4,987	LS	5,487	LS	3,643	LS	4,793	LS	1,270
c) Consulting Services (refer to Table N.2-13)	LS	7,104	LS	3,775	LS	7,104	LS	3,368	LS	3,972	LS	5,125	LS	5,174	LS	4,987	LS	7,104	LS	7,104	LS	4,793	LS	1,270
TOTAL		14,254		9,437		14,643		8,420		9,930		12,813		12,935		12,468		15,142		12,377		11,983		3,175
2.4 Land Aquathon	LS	526				1,016												366		498				
TOTAL		526				1,016												366		498				
2.5 Physical Contingency (10% of 2.1+2.2)		4,895		3,775		5,154		3,368		3,972		5,125		5,174		4,987		5,487		3,643		4,793		1,270
GRAND TOTAL		68,622		50,958		72,393		45,466		53,620		69,188		69,845		67,327		75,861		52,951		64,707		17,147
3. Classification of Model Areas and Selection of Typical Model Area																								
3.1 Classification of Model Areas																								
a) By Various Elements of Present Conditions	Cluster-1		Cluster-2		Cluster-2		Cluster-1		Cluster-1		Cluster-2		Cluster-3		Cluster-3		Cluster-3		Cluster-3		Cluster-3		Cluster-3	
b) By Project Development Type	Type-I, II		Type-I		Type-III		Type-III		Type-III		Type-III		Type-IV		Type-III		Type-IV		Type-IV		Type-IV		Type-IV	
3.2 Selection of Typical Model Areas	◎				◎												◎		◎					

* Many beneficiaries reside outside of the Project Area, hence, the farm household is larger than the barangay household.

N-1

Table N.1-2 Summary of Project Cost (1/2)

(₱ '000)

Description	Sappaac ARC (Region-CAR)	Taiugtog ARC (Region-I)	Cofcaville ARC (Region-II)	Montilla ARC (Region-III)	Maulawin ARC (Region-IV)	Pag-Asa ARC (Region-V)
1. Construction Cost						
A. Agricultural Development	951	3,260	951	3,160	3,360	3,360
B. Agricultural Infrastructure Development	11,684	6,760	15,873	5,565	10,600	14,386
C. Rural Infrastructure Development	29,173	25,400	24,332	21,940	22,930	31,220
D. Post-Harvest Development	2,626	1,656	5,872	2,343	2,158	1,614
E. Institutional Development	670	670	670	670	670	670
Sub-total (A - E)	45,104	37,746	47,698	33,678	39,718	51,250
2. Community Development & Support Services						
A. Agricultural Suppor Services	2,047	2,047	2,047	2,047	2,047	2,047
B. Institutional Development	1,795	1,795	1,795	1,795	1,795	1,795
	3,842	3,842	3,842	3,842	3,842	3,842
3. Associated Cost						
A. Pre-Engineering Cost (5% of 1)	2,255	1,887	2,385	1,684	1,986	2,563
B. Administration Cost (10% of 1 & 2)	4,895	4,159	5,154	3,752	4,356	5,509
C. Consulting Services (10% of 1)	4,510	3,775	4,770	3,368	3,972	5,125
Sub-total (A - C)	11,660	9,821	12,309	8,804	10,314	13,197
4. Land Acqisition	528	600	1,016	600	600	600
5. Physical Contingency (10% of 1 & 2)	4,895	4,159	5,154	3,752	4,356	5,509
Total (1 - 5)	66,029	56,168	70,019	50,676	58,830	74,398

Table N.1-2 Summary of Project Cost (2/2)

(₱ '000)

Description	Abiera ARC (Region-VI)	San Vicente ARC (Region-VII)	Marangog-Leyte ARC (Region-VIII)	Silae ARC (Region-X)	Kipalili ARC (RegionXI)	Mat-i ARC (Region-XIII)
1. Construction Cost						
A. Agricultural Development	3,360	3,360	951	951	3,360	3,060
B. Agricultural Infrastructure Development	600	11,690	13,257	9,407	10,956	400
C. Rural Infrastructure Development	45,540	31,880	34,461	19,280	30,930	7,800
D. Post-Harvest Development	1,566	2,272	1,686	2,284	2,015	772
E. Institutional Development	670	670	670	670	670	670
Sub-total (A - E)	51,736	49,872	51,025	32,592	47,931	12,702
2. Community Development & Support Services						
A. Agricultural Suppor Services	2,047	2,047	2,047	2,047	2,047	2,047
B. Institutional Development	1,795	1,795	1,795	1,795	1,795	1,795
	3,842	3,842	3,842	3,842	3,842	3,842
3. Associated Cost						
A. Pre-Engineering Cost (5% of 1)	2,587	2,494	2,551	1,629	2,397	635
B. Administration Cost (10% of 1 & 2)	5,558	5,371	5,487	3,643	5,177	1,654
C. Consulting Services (10% of 1)	5,174	4,987	5,103	3,259	4,793	1,270
Sub-total (A - C)	13,318	12,852	13,140	8,531	12,367	3,560
4. Land Acqisition	600	600	366	498	600	600
5. Physical Contingency (10% of 1 & 2)	5,558	5,371	5,487	3,643	5,177	1,654
Total (1 - 5)	75,054	72,538	73,860	49,106	69,917	22,358

Table N. 1-3(1)(1/2)

Breakdown of Project Cost for Each Marginal Area

2. Talugtog ARC (Region-I)

Description	Q'ty	Unit	Unit rate (₱'000)	Amount (₱'000)
A. Agricultural Development				
1) Nursery				
a) Land for seed bed/nursery/green house/etc.	1,500	sq.m	0.02	30
b) Mist house/Green house & pot bed/Garage	460	sq.m	2	920
c) Office and warehouse	180	sq.m	3.5	630
d) Machinery and tools	1	lot	478	478
				2,058
2) Training & On-farm Demonstration Farm				
a) Land preparation	1	lot	50	50
b) Pick-up	1	unit	390	390
c) Motorbike	3	unit	80	240
d) Office furniture/equipment	1	lot	32	32
e) Audio visual equipment	1	lot	100	100
				812
3) Livestock Dispersal				
a) Carabao (female)	10	head	20	200
4) Animal Breeding Center				
a) Carabao (male)	1	head	40	40
b) Animal shed	20	sq.m	3.5	70
				110
5) Poultry Incubator				
a) Poultly incubator (kerosene type)	1	unit	80	80
Sub-total of A				3,260
B. Agricultural Infrastructure Development				
1) Irrigation Development				
a) Shallow open well w/ pump & pipes	20	place	150	3,000
				3,000
2) Drainage Improvement				
a) Drainage canals	44	ha	15	660
3) Farm Roads Development				
a) New construction (gravel)	3	km	900	2,700
				2,700
4) Farm Land Conservation				
a) Contour tree planting	20	ha	20	400
Sub-total of B				6,760
C. Rural Infrastructure Development				
1) Rural Roads Development				
a) Improvement/Rehabilitation	1.2	km	1,000	1,200
b) Upgrading/Concreting	0.3	km	3,000	900
c) River crossing (foot bridge)	50	l.m	100	5,000
d) Multi purpose pavement	2	place	200	400
e) Strengthening motor pool	1	lot	15,000	15,000
f) Public transport	1	lot	300	300
				22,800

Cont'd: Table N. 1-3(1) (2/2)

2) Rural Water Supply Development			
a) Deep well w/ hand pump (level-I)	5 place	240	1,200
b) Water treatment plant	5 unit	50	250
			1,450
3) Other Social Infrastructure Development			
a) Const. of health center	1 lot	180	180
b) Pramedical supplies/equipment/facilities	1 lot	100	100
c) Const. of primary school (4 classrooms)	1 lot	720	720
d) Expansion to multi-purpose center	1 lot	150	150
			1,150
Sub-total of C			25,400
D. Post-Harvest Development			
1) Agricultural Machinery			
a) Hand tractor	2 unit	41	82
b) Sprayer	8 "	15	120
			202
2) Post-Harvest & Agro-Industry Facilities			
a) Multi-purpose dryer	1 place	386	386
b) Reaper	3 unit	35	105
c) Rice thresher (foot type)	4 "	2	8
d) Rice thresher (w/ prime mover)	1 "	42	42
e) Winnower	2 "	2	4
f) Rice agro-industry center	1 place	909	909
			1,454
Sub-total of D			1,656
E. Institutional Development			
1) Community Development Program			
a) Pick-up	1 unit	390	390
b) Motorbike	1 "	80	80
c) Office furniture/equipment	1 lot	200	200
			670
Sub-total of E			670
Total of Talugtog ARC			37,746

Table N. I-3(2)(1/2)

Breakdown of Project Cost for Each Marginal Area

4. Montilla ARC (Region-III)

Description	Q'ty	Unit	Unit rate (₱'000)	Amount (₱'000)
A. Agricultural Development				
1) Nursery				
a) Land for seed bed/nursery/green house/etc.	1,500	sq.m	0.02	30
b) Mist house/Green house & pot bed/Garage	460	sq.m	2	920
c) Office and warehouse	180	sq.m	3.5	630
d) Machinery and tools	1	lot	478	478
				2,058
2) Training & On-farm Demonstration Farm				
a) Land preparation	1	lot	50	50
b) Pick-up	1	unit	390	390
c) Motorbike	3	unit	80	240
d) Office furniture/equipment	1	lot	32	32
e) Audio visual equipment	1	lot	100	100
				812
3) Livestock Dispersal				
a) Carabao (female)	5	head	20	100
4) Animal Breeding Center				
a) Carabao (male)	1	head	40	40
b) Animal shed	20	sq.m	3.5	70
				110
5) Poultry Incubator				
a) Poultly Incubator (kerosene type)	1	unit	80	80
Sub-total of A				3,160
B. Agricultural Infrastructure Development				
1) Irrigation Development				
a) Tank irrigation system	7	ha	200	1,400
b) Spring development (same with rural water)	2	place	-	0
				1,400
2) Drainage Improvement				
a) Drainage canals	7	ha	15	105
3) Farm Roads Development				
a) New construction (gravel)	2.2	km	900	1,980
b) -do- (concrete)	0.4	km	2,200	880
c) River crossing (spillway bridge)	20	l.m	50	1,000
				3,860
4) Farm Land Conservation				
a) Contour tree planting	10	ha	20	200
Sub-total of B				5,565
C. Rural Infrastructure Development				
1) Rural Roads Development				
a) Improvement/Rehabilitation	4	km	1,000	4,000
b) Multi purpose pavement	2	place	200	400
c) Strengthening motor pool	1	lot	15,000	15,000
d) Public transport	1	lot	300	300
				19,700

Cont'd:Table N. 1-3(2) (2/2)

2) Rural Water Supply Development			
a) Spring development (level-I)	2 place	130	260
b) Spring development (level-II)	1 place	500	500
			760
3) Rural Electrification			
a) Electric power line construction	4 km	300	1,200
4) Other Social Infrastructure Development			
a) Const. of health center	1 lot	180	180
b) Paramedical supplies/equipment/facilities	1 lot	100	100
			280
Sub-total of C			21,940
D. Post-Harvest Development			
1) Agricultural Machinery			
a) Tractor	1 unit	1,525	1,525
b) Sprayer	4 unit	15	60
			1,585
2) Post-Harvest & Agro-Industry Facilities			
a) Warehouse with solar dryer	1 place	758	758
			758
Sub-total of D			2,343
E. Institutional Development			
1) Community Development Program			
a) Pick-up	1 unit	390	390
b) Motorbike	1 "	80	80
c) Office furniture/equipment	1 lot	200	200
			670
Sub-total of E			670
Total of Montilla ARC			33,678

Table N. 1-3(3) (1/2)
Breakdown of Project Cost for Each Marginal Area

5. Maulawin ARC (Region-IV)

Description	Q'ty	Unit	Unit rate (₱'000)	Amount (₱'000)
A. Agricultural Development				
1) Nursery				
a) Land for seed bed/nursery/green house/etc.	1,500	sq.m	0.02	30
b) Mist house/Green house & pot bed/Garage	460	sq.m	2	920
c) Office and warehouse	180	sq.m	3.5	630
d) Machinery and tools	1	lot	478	478
				2,058
2) Training & On-farm Demonstration Farm				
a) Land preparation	1	lot	50	50
b) Pick-up	1	unit	390	390
c) Motorbike	3	unit	80	240
d) Office furniture/equipment	1	lot	32	32
e) Audio visual equipment	1	lot	100	100
				812
3) Livestock Dispersal				
a) Carabao (female)	15	head	20	300
4) Animal Breeding Center				
a) Carabao (male)	1	head	40	40
b) Animal shed	20	sq.m	3.5	70
				110
5) Poultry Incubator				
a) Poultiy Incubator (kerosene type)	1	unit	80	80
Sub-total of A				3,360
B. Agricultural Infrastructure Development				
1) Irrigation Development				
a) Small water impounding dam	1	place	4,900	4,900
b) Irrigation facilities	20	ha	38	760
				5,660
2) Drainage Improvement				
a) Drainage canals	20	ha	15	300
3) Farm Roads Development				
a) New construction (gravel)	2.4	km	900	2,160
b) -do- (concrete)	0.4	km	2,200	880
c) River crossing (spillway bridge)	20	l.m	50	1,000
				4,040
4) Farm Land Conservation				
a) Contour tree planting	30	ha	20	600
Sub-total of B				10,600
C. Rural Infrastructure Development				
1) Rural Roads Development				
a) Improvement/Rehabilitation	4.7	km	1,000	4,700
b) Upgrading/Concreting	0.3	km	3,000	900
c) Multi purpose pavement	3	place	200	600
d) Strengthening motor pool	1	lot	15,000	15,000

Cont'd:Table N. 1-3(3) (2/2)

e) Public transport	1 lot	300	300
			21,500
2) Rural Water Supply Development			
a) Deep well w/ hand pump (level-1)	4 place	240	960
b) Water treatment plant	4 unit	50	200
			1,160
3) Other Social Infrastructure Development			
a) Rehabill. of elementary school	1 lot	20	20
b) Paramedical supplies/equipment/facilities	1 lot	100	100
c) Const. of barangay hall	1 lot	150	150
			270
Sub-total of C			22,930
D. Post-Harvest Development			
1) Agricultural Machinery			
a) Hand tractor	2 unit	41	82
b) Sprayer	6 unit	15	90
			172
2) Post-Harvest & Agro-Industry Facilities			
a) Multi-purpose dryer	3 place	386	1,158
b) Reaper	2 unit	35	70
c) Warehouse with solar dryer	1 place	758	758
			1,986
Sub-total of D			2,158
E. Institutional Development			
1) Community Development Program			
a) Pick-up	1 unit	390	390
b) Motorbike	1 "	80	80
c) Office furniture/equipment	1 lot	200	200
			670
Sub-total of E			670
Total of Maulawin ARC			39,718

Table N. 1-3(4)(1/2)

Breakdown of Project Cost for Each Marginal Area

6. Pag-Asa ARC (Region-V)

Description	Q'ty	Unit	Unit rate (₱'000)	Amount (₱'000)
A. Agricultural Development				
1) Nursery				
a) Land for seed bed/nursery/green house/etc.	1,500	sq.m	0.02	30
b) Mist house/Green house & pot bed/Garage	460	sq.m	2	920
c) Office and warehouse	180	sq.m	3.5	630
d) Machinery and tools	1	lot	478	478
				2,058
2) Training & On-farm Demonstration Farm				
a) Land preparation	1	lot	50	50
b) Pick-up	1	unit	390	390
c) Motorbike	3	unit	80	240
d) Office furniture/equipment	1	lot	32	32
e) Audio visual equipment	1	lot	100	100
				812
3) Livestock Dispersal				
a) Carabao (female)	15	head	20	300
4) Animal Breeding Center				
a) Carabao (male)	1	head	40	40
b) Animal shed	20	sq.m	3.5	70
				110
5) Poultry Incubator				
a) Poultly incubator (kerosene type)	1	unit	80	80
Sub-total of A				3,360
B. Agricultural Infrastructure Development				
1) Irrigation Development				
a) Small water impounding dam	1	place	4,900	4,900
b) Irrigation facilities	12	ha	38	456
				5,356
2) Drainage Improvement				
a) Drainage canals	12	ha	15	180
3) Farm Roads Development				
a) New construction (gravel)	4.5	km	900	4,050
b) -do- (concrete)	1	km	2,200	2,200
c) River crossing (spillway bridge)	40	l.m	50	2,000
				8,250
4) Farm Land Conservation				
a) Contour tree planting	30	ha	20	600
Sub-total of B				14,386
C. Rural Infrastructure Development				
1) Rural Roads Development				
a) Improvement/Rehabilitation	10.5	km	1,000	10,500
b) Upgrading/Concreting	0.5	km	3,000	1,500
c) Multi purpose pavement	4	place	200	800
d) Strengthening motor pool	1	lot	15,000	15,000

Cont'd:Table N. 1-3(4) (2/2)

e) Public transport	1 lot	300	300
			28,100
2) Rural Water Supply Development			
a) Deep well w/ hand pump (level-I)	9 place	240	2,160
			2,160
3) Other Social Infrastructure Development			
a) Const. of additional classroom (3)	1 lot	540	540
b) Rehabili. of barangay health center	1 lot	20	20
c) Paramedical supplies/equipment/facilities	1 lot	100	100
d) Expansion to multi-purpose center	1 lot	300	300
			960
Sub-total of C			31,220
D. Post-Harvest Development			
1) Agricultural Machinery			
a) Sprayer	2 unit	15	30
			30
2) Post-Harvest & Agro-Industry Facilities			
a) Multi-purpose dryer	2 place	386	772
b) Reaper	1 unit	35	35
c) Rice thresher (foot type)	2 unit	2	4
d) Winnower	1 unit	2	2
e) Warehouse with solar dryer	1 place	758	758
f) Corn sheller (handy type)	1 unit	13	13
			1,584
Sub-total of D			1,614
E. Institutional Development			
1) Community Development Program			
a) Pick-up	1 unit	390	390
b) Motorbike	1 "	80	80
c) Office furniture/equipment	1 lot	200	200
			670
Sub-total of E			670
Total of Pag-Asa ARC			51,250

Table N. 1-3(5) (1/2)

Breakdown of Project Cost for Each Marginal Area

7. Abiera Estate (Region-VI)

Description	Q'ty	Unit	Unit rate (₱'000)	Amount (₱'000)
A. Agricultural Development				
1) Nursery				
a) Land for seed bed/nursery/green house/etc.	1,500	sq.m	0.02	30
b) Mist house/Green house & pot bed/Garage	460	sq.m	2	920
c) Office and warehouse	180	sq.m	3.5	630
d) Machinery and tools	1	lot	478	478
				2,058
2) Training & On-farm Demonstration Farm				
a) Land preparation	1	lot	50	50
b) Pick-up	1	unit	390	390
c) Motorbike	3	unit	80	240
d) Office furniture/equipment	1	lot	32	32
e) Audio visual equipment	1	lot	100	100
				812
3) Livestock Dispersal				
a) Carabao (female)	15	head	20	300
4) Animal Breeding Center				
a) Carabao (male)	1	head	40	40
b) Animal shed	20	sq.m	3.5	70
				110
5) Poultry Incubator				
a) Poultiy Incubator (kerosene type)	1	unit	80	80
Sub-total of A				3,360
B. Agricultural Infrastructure Development				
1) Farm Land Conservation				
a) Contour tree planting	30	ha	20	600
Sub-total of B				600
C. Rural Infrastructure Development				
1) Rural Roads Development				
a) Improvement/Rehabilitation	4.3	km	1,000	4,300
b) Upgrading/Concreting	0.5	km	3,000	1,500
c) New construction (gravel)	6.4	km	1,400	8,960
d) -do- (concrete)	1	km	3,400	3,400
e) River crossing (spillway bridge)	100	l.m	75	7,500
f) Multi purpose pavement	3	place	200	600
g) Strengthening motor pool	1	lot	15,000	15,000
h) Public transport	1	lot	300	300
				41,560
2) Rural Water Supply Development				
a) Deep well w/ hand pump (level-I)	4	place	240	960
b) Spring development (level-I)	2	place	130	260
c) Water treatment plant	6	unit	50	300
				1,520
3) Rural Electrification				
a) Electric power line construction	5.5	km	300	1,650

Cont'd:Table N. 1-3(5)(2/2)

4) Other Social Infrastructure Development			
a) Const. of additional classroom (3)	1 lot	540	540
b) Rehabili. of brangay health center	1 lot	20	20
c) Paramedical supplies/equipment/facilities	1 lot	100	100
d) Expansion to multi-purpose center	1 lot	150	150
			810
Sub-total of C			45,540
D. Post-Harvest Development			
1) Agricultural Machinery			
a) Sprayer	2 unit	15	30
			30
2) Post-Harvest & Agro-Industry Facilities			
a) Multi-purpose dryer	2 place	386	772
b) Rice thresher (foot type)	2 unit	2	4
c) Winnower	1 unit	2	2
d) Warehouse with solar dryer	1 place	758	758
			1,536
Sub-total of D			1,566
E. Institutional Development			
1) Community Development Program			
a) Pick-up	1 unit	390	390
b) Motorbike	1 "	80	80
c) Office furniture/equipment	1 lot	200	200
			670
Sub-total of E			670
Total of Abiera Estate			51,736

Table N. 1-3(6) (1/2)

Breakdown of Project Cost for Each Marginal Area

8. San Vicente ARC (Region-VII)

Description	Q'ty	Unit	Unit rate (₱'000)	Amount (₱'000)
A. Agricultural Development				
1) Nursery				
a) Land for seed bed/nursery/green house/etc.	1,500	sq.m	0.02	30
b) Mist house/Green house & pot bed/Garage	460	sq.m	2	920
c) Office and warehouse	180	sq.m	3.5	630
d) Machinery and tools	1	lot	478	478
				2,058
2) Training & On-farm Demonstration Farm				
a) Land preparation	1	lot	50	50
b) Pick-up	1	unit	390	390
c) Motorbike	3	unit	80	240
d) Office furniture/equipment	1	lot	32	32
e) Audio visual equipment	1	lot	100	100
				812
3) Livestock Dispersal				
a) Carabao (female)	15	head	20	300
4) Animal Breeding Center				
a) Carabao (male)	1	head	40	40
b) Animal shed	20	sq.m	3.5	70
				110
5) Poultry Incubator				
a) Poultly incubator (kerosene type)	1	unit	80	80
Sub-total of A				3,360
B. Agricultural Infrastructure Development				
1) Irrigation Development				
a) Small water impounding dam	1	place	4,900	4,900
b) Irrigation facilities	10	ha	38	380
				5,280
2) Drainage Improvement				
a) Drainage canals	10	ha	15	150
3) Farm Roads Development				
a) New construction (gravel)	4	km	900	3,600
b) -do- (concrete)	0.8	km	2,200	1,760
c) River crossing (spillway bridge)	2	l.m	50	100
				5,460
4) Farm Land Conservation				
a) Contour tree planting	40	ha	20	800
Sub-total of B				11,690
C. Rural Infrastructure Development				
1) Rural Roads Development				
a) Improvement/Rehabilitation	5.7	km	1,000	5,700
b) Upgrading/Concreting	0.3	km	3,000	900
c) New construction (gravel)	3.6	km	1,400	5,040
d) -do- (concrete)	0.4	km	3,400	1,360
e) River crossing (spillway bridge)	20	l.m	75	1,500

Cont'd: Table N. 1-3(6) (2/2)

f) Multi purpose pavement	3 place	200	600
g) Strengthening motor pool	1 lot	15,000	15,000
h) Public transport	1 lot	300	300
			30,400
2) Rural Water Supply Development			
a) Deep well w/ hand pump (level-1)	2 place	240	480
			480
3) Other Social Infrastructure Development			
a) Conat. of primary school (4 classrooms)	1 lot	720	720
b) Const. of day care center	1 lot	180	180
c) Paramedical supplies/equipment/facilities	1 lot	100	100
			1,000
Sub-total of C			31,880
D. Post-Harvest Development			
1) Agricultural Machinery			
a) Hand tractor	2 unit	41	82
b) Sprayer	6 unit	15	90
			172
2) Post-Harvest & Agro-Industry Facilities			
a) Multi-purpose dryer	1 place	386	386
b) Reaper	3 unit	35	105
c) Rice thresher (foot type)	3 unit	2	6
d) Rice thresher (w/ prime mover)	1 unit	42	42
e) Winnower	3 unit	2	6
f) Warehouse with solar dryer	2 place	758	1,516
g) Corn sheller (handy type)	3 unit	13	39
			2,100
Sub-total of D			2,272
E. Institutional Development			
1) Community Development Program			
a) Pick-up	1 unit	390	390
b) Motorbike	1 "	80	80
c) Office furniture/equipment	1 lot	200	200
			670
Sub-total of E			670
Total of San Vicente ARC			49,872

Table N. 1-3(7) (1/2)

Breakdown of Project Cost for Each Marginal Area

11. Kipalili ARC (Region-X I)

Description	Q'ty	Unit	Unit rate (₱'000)	Amount (₱'000)
A. Agricultural Development				
1) Nursery				
a) Land for seed bed/nursery/green house/etc.	1,500	sq.m	0.02	30
b) Mist house/Green house & pot bed/Garage	460	sq.m	2	920
c) Office and warehouse	180	sq.m	3.5	630
d) Machinery and tools	1	lot	478	478
				2,058
2) Training & On-farm Demonstration Farm				
a) Land preparation	1	lot	50	50
b) Pick-up	1	unit	390	390
c) Motorbike	3	unit	80	240
d) Office furniture/equipment	1	lot	32	32
e) Audio visual equipment	1	lot	100	100
				812
3) Livestock Dispersal				
a) Carabao (female)	15	head	20	300
4) Animal Breeding Center				
a) Carabao (male)	1	head	40	40
b) Animal shed	20	sq.m	3.5	70
				110
5) Poultry Incubator				
a) Poultiy incubator (kerosene type)	1	unit	80	80
Sub-total of A				3,360
B. Agricultural Infrastructure Development				
1) Irrigation Development				
a) River intake/Diversion dam	1	place	1,000	1,000
b) Irrigation facilities	12	ha	38	456
				1,456
2) Drainage Improvement				
a) Drainage canals	12	ha	15	180
3) Farm Roads Development				
a) New construction (gravel)	6	km	900	5,400
b) -do- (concrete)	0.6	km	2,200	1,320
c) River crossing (spillway bridge)	40	l.m	50	2,000
				8,720
4) Farm Land Conservation				
a) Contour tree planting	30	ha	20	600
Sub-total of B				10,956
C. Rural Infrastructure Development				
1) Rural Roads Development				
a) Improvement/Rehabilitation	7.6	km	1,000	7,600
b) Upgrading/Concreting	0.4	km	3,000	1,200
c) Multi purpose pavement	6	place	200	1,200
d) Strengthening motor pool	1	lot	15,000	15,000

Cont'd:Table N. 1-3(7)(2/2)

e) Public transport	1 lot	300	300
			25,300
2) Rural Water Supply Development			
a) Deep well w/ hand pump (level-I)	7 place	240	1,680
			1,680
3) Rural Electrification			
a) Electric power line construction	9 km	300	2,700
4) Other Social Infrastructure Development			
a) Const. of health center	1 lot	180	180
b) Paramedical supplies/equipment/facilities	1 lot	100	100
c) Expansion to multi-purpose center	1 lot	150	150
d) Conat. of additional classroom (3)	1 lot	540	540
e) Const. of home economics building	1 lot	180	180
f) Equipment/facilities for home economics build	1 lot	100	100
			1,250
Sub-total of C			30,930
D. Post-Harvest Development			
1) Agricultural Machinery			
a) Sprayer	3 unit	15	45
			45
2) Post-Harvest & Agro-Industry Facilities			
a) Multi-purpose dryer	3 place	386	1,158
b) Reaper	1 unit	35	35
c) Rice thresher (foot type)	2 unit	2	4
d) Winnower	1 unit	2	2
e) Warehouse with solar dryer	1 place	758	758
f) Corn sheller (handy type)	1 unit	13	13
			1,970
Sub-total of D			2,015
E. Institutional Development			
1) Community Development Program			
a) Pick-up	1 unit	390	390
b) Motorbike	1 〃	80	80
c) Office furniture/equipment	1 lot	200	200
			670
Sub-total of E			670
Total of Kipatili ARC			47,931

Table N. 1-3(8) (1/2)

Breakdown of Project Cost for Each Marginal Area

12. Mat-I ARC (Region-X III)

Description	Q'ty	Unit	Unit rate (₱'000)	Amount (₱'000)
A. Agricultural Development				
1) Nursery				
a) Land for seed bed/nursery/green house/etc.	1,500	sq.m	0.02	30
b) Mist house/Green house & pot bed/Garage	460	sq.m	2	920
c) Office and warehouse	180	sq.m	3.5	630
d) Machinery and tools	1	lot	478	478
				2,058
2) Training & On-farm Demonstration Farm				
a) Land preparation	1	lot	50	50
b) Pick-up	1	unit	390	390
c) Motorbike	3	unit	80	240
d) Office furniture/equipment	1	lot	32	32
e) Audio visual equipment	1	lot	100	100
				812
3) Animal Breeding Center				
a) Carabao (male)	1	head	40	40
b) Animal shed	20	sq.m	3.5	70
				110
4) Poultry Incubator				
a) Poultly incubator (kerosene type)	1	unit	80	80
Sub-total of A				3,060
B. Agricultural Infrastructure Development				
1) Farm Land Conservation				
a) Contour tree planting	20	ha	20	400
Sub-total of B				400
C. Rural Infrastructure Development				
1) Rural Roads Development				
a) New construction (gravel)	2	km	1,400	2,800
b) -do- (concrete)	0.5	km	3,400	1,700
c) River crossing (spillway bridge)	40	l.m	75	3,000
d) Multi purpose pavement	1	place	200	200
				7,700
2) Other Social Infrastructure Development				
a) Paramedical supplies/equipment/facilities	1	lot	100	100
				100
Sub-total of C				7,800
D. Post-Harvest Development				
1) Post-Harvest & Agro-Industry Facilities				
a) Multi-purpose dryer	2	place	386	772
				772
Sub-total of D				772

Cont'd:Table N. 1-3(8)(2/2)

E. Institutional Development			
1) Community Development Program			
a) Pick-up	1 unit	390	390
b) Motorbike	1 〃	80	80
c) Office furniture/equipment	1 lot	200	200
			670
Sub-total of E			670
Total of Mat-i ARC			12,702

Table N. 1-4 Breakdown of Community Development & Support Services Cost
(For Four Years Duration)

Description	Q'ty	Unit	Unit Rate	Amount F/C	Amount L/C	Amount Total
			₱	₱	₱	₱
A. Agricultural Support Services						
1) Training & Demonstration Farm						
a. Personnel services						
- Technologist (1)	2.5	M/M	16,500	0	41,250	41,250
- Site forest ranger (1)	2.5	M/M	11,000	0	27,500	27,500
- Development workers (4)	48.0	M/M	6,000	0	288,000	288,000
b. Supplies and materials						
- Farming input & materials	l.s.	-	-	0	25,000	25,000
- Teaching materials	l.s.	-	-	0	12,500	12,500
- Training materials	l.s.	-	-	0	3,500	3,500
- Office supplies	l.s.	-	-	0	2,000	2,000
c. Travel allowance	l.s.	-	-	0	60,000	60,000
e. Miscellaneous expence	l.s.	-	-	0	40,000	40,000
Sub-Total				0	499,750	499,750
2) Animal Husbandry						
a. Supplies/consumables/vaccines	l.s.	-	10,000	0	10,000	10,000
b. Miscellaneous expence	1	lot	2,000	0	2,000	2,000
Sub-Total				0	12,000	12,000
Total of A (Annual)				0	511,750	511,750
Total for 4 Years				0	2,047,000	2,047,000
B. Institutional Development						
1) Community Development Program						
a. Personnel services						
- Community dev. worker (1)	12	M/M	16,500	0	198,000	198,000
- Specialist (3)	9	M/M	11,000	0	79,200	79,200
- Assistant (1)	3	M/M	9,500	0	14,250	14,250
- Secretary (1)	3	M/M	9,500	0	28,500	28,500
b. Supplies and materials	l.s.	-	-	0	12,000	12,000
c. Travel allowance	l.s.	-	-	0	42,000	42,000
d. Fuel/oil for vehicles	l.s.	-	-	0	30,000	30,000
e. Miscellaneous expence	l.s.	-	-	0	45,000	45,000
Total of B (Annual)				0	448,950	448,950
Total for 4 Years				0	1,795,800	1,795,800
Grand Total				0	3,842,800	3,842,800

Table N.1-5 Summary of Annual O & M Cost

(₱)

Description	Sappaac ARC (CAR)	Talugtog ARC (Region-I)	Cofcaville ARC (Region-II)	Montilla ARC (Region-III)	Maulawin ARC (Region-IV)	Pag-Asa ARC (Region-V)
Operation and Maintenance Cost						
A. Agricultural Development	9,510	32,600	9,510	31,600	33,600	33,600
B. Agricultural Infrastructure Development	116,840	67,600	158,730	55,650	106,000	143,860
C. Rural Infrastructure Development	291,730	254,000	243,320	219,400	229,300	312,200
D. Post-Harvest Development	65,650	41,400	146,800	58,575	53,950	40,350
E. Institutional Development	6,700	6,700	6,700	6,700	6,700	6,700
Total (A - E)	490,430	402,300	565,060	371,925	429,550	536,710

Description	Abiera Estate (Region-VI)	San Vicente ARC (Region-VII)	Marangog-Leyte ARC (Region-VIII)	Silae ARC (Region-X)	Kipalili ARC (Region-X I)	Mat-i ARC (Region-X III)
Operation and Maintenance Cost						
A. Agricultural Development	33,600	33,600	9,510	9,510	33,600	30,600
B. Agricultural Infrastructure Development	6,000	116,900	132,570	94,070	109,560	4,000
C. Rural Infrastructure Development	455,400	318,800	344,610	192,800	309,300	78,000
D. Post-Harvest Development	39,150	56,800	42,150	57,100	50,375	19,300
E. Institutional Development	6,700	6,700	6,700	6,700	6,700	6,700
Total (A - E)	540,850	532,800	535,540	360,180	509,535	138,600

FIGURE N.1-1 ORGANIZATION CHART FOR PROJECT IMPLEMENTATION

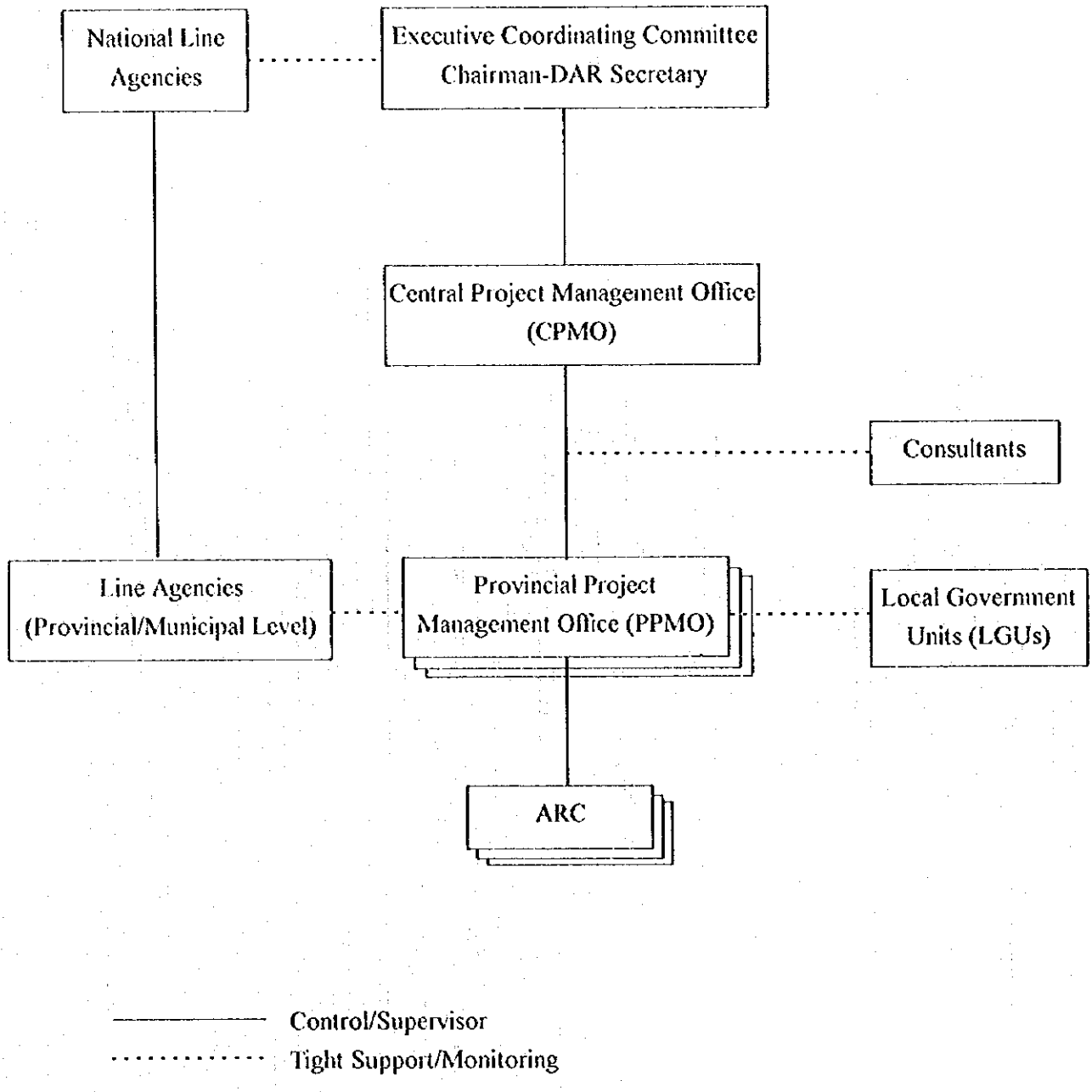


FIGURE N.1-2 ORGANIZATION CHART FOR O&M

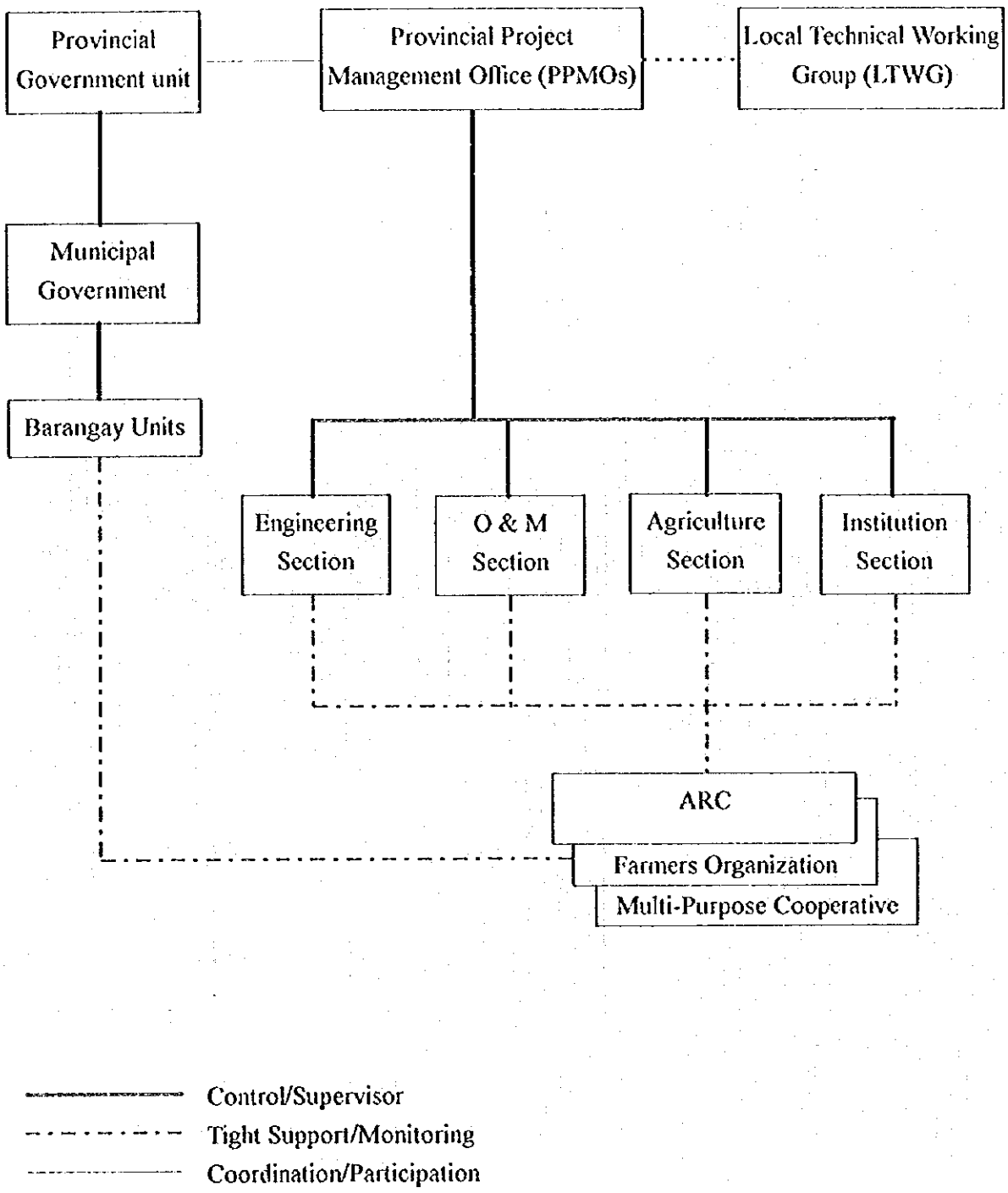


TABLE N.2-1 PROJECT FEATURES FOR TYPICAL MODEL AREAS AND THEIR COSTS

Item	Sappaac (Region-CAR)		Cofcaville ARC (Region-2)		Marangog ARC (Region-8)		Sifae ARC (Region-10)	
1. Areas, Population and Farm Household								
1.1 Areas (ha)								
a) Study Areas	375		490		330		164	
b) Ratio of Area less than 18% of Land Slope (%)	70		73		46		58	
c) Proposed Cultivation Area (lessthan 30%)	263		358		152		95	
1.2 Population								
a) Total Population	1,159		1,326		1,309		564	
b) Farm Household	189		179		247		115	
Permanent	179(95%)		55(30%)		238(96%)		3(3%)	
Transient	10		124		9		112	
1.3 Proposed Main Crop	Paddy Rice + Upland Crop(Garlic)		Paddy + Paddy + Upland (Mungbean)		Paddy Rice + Upland (Squash)		Paddy + Paddy + Upland (Mungbean)	
2. Agricultural and Rural Infrastructural Facilities	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost	Q'ty	Cost
2.1 Construction Costs		(P'000)		(P'000)		(P'000)		(P'000)
a) Agricultural Development								
1) Nursery	0.05 ha	161	0.05 ha	161	0.05 ha	161	0.05 ha	161
2) Training & On-farm Demonstration Farm	1 place	195	1 place	195	1 place	195	1 place	195
3) Livestock Dispersal	15 heads	300	15 heads	300	15 heads	300	15 heads	300
4) Animal Breeding Center	50 sq m	215	50 sq. m	215	50 sq.m	215	50 sq.m	215
5) Poultry Incubator	1 unit	80	1 unit	80	1 unit	80	1 unit	80
Sub-Total		951		951		951		951
b) Agricultural Infrastructure Development								
1) Irrigation Development	1 SWID	5,635	1 SWID	2,794	1 Intake	6,659	2 Intake	3,433
2) Drainage Improvement	1,200 m	299	600 m	165	-	-	1,480 m	899
3) Farm Roads Development	3.3 km	5,750	8.7 km	12,914	3.2 km	6,398	2.7 km	5,075
4) Farm Land Conservation	-	-	-	-	-	-	-	-
Sub-Total		11,684		15,873		13,257		9,407
c) Rural Infrastructure Development								
1) Rural Roads Development	6.8 km	11,513	3.8 km	8,872	9.6 km	17,581	LS	600
2) Rural Water Supply Development	9 places	2,160	-	-	1 place	1,450	5 places	1,200
3) Other Social Infrastructure	LS	500	LS	460	LS	430	LS	1,430
4) Rural Electrification	-	-	-	-	-	-	3.5 km	1,050
5) Strengthening Motor Pool for O & M works	LS	15,000	LS	15,000	LS	15,000	LS	15,000
Sub-Total		29,173		24,332		34,461		19,280
d) Post-Harvest & Agro-Industry Facilities								
1) Agricultural Machinery	LS	33	LS	1,545	LS	56	LS	51
2) Post Harvest & Agro-Industry Facilities	2 places	2,593	2 places	4,327	2 places	1,630	1 place	2,233
Sub-Total		2,626		5,872		1,686		2,284
e) Institutional Development								
1) Community Development Program	1 place	670	1 places	670	1 place	670	1 place	670
Sub-Total		670		670		670		670
TOTAL		45,104		47,698		51,025		32,592
2.2 Community Development & Support Services	LS	3,842		3,842	LS	3,842	LS	3,842
TOTAL		3,842		3,842		3,842		3,842
2.3 Associated Costs								
a) Pre-Engineering Cost (5% of 2.1)	LS	2,255	LS	2,365	LS	2,551	LS	1,630
b) Administration Cost (10% of (2.1+2.2))	LS	4,895	LS	5,154	LS	5,487	LS	3,642
c) Consulting Services (refer to Table N.2-13)	LS	7,104	LS	7,104	LS	7,104	LS	7,104
TOTAL		14,254		14,643		15,142		12,376
2.4 Land Aquisition	LS	528		1,016		366		498
TOTAL		528		1,016		366		498
2.5 Physical Contingency (10% of 2.1+2.2)		4,895		5,154		5,487		3,643
GRAND TOTAL		68,622		72,353		75,661		52,951
2.6 Total Project Costs for Four Typical Models	269,787							
3. Project Evaluation (EIRR,%)	12		12		9		19	
4. Classification of Model Areas								
3.1 Classification of Model Areas								
a) By Various Elements of Present Conditions	Cluster-1		Cluster-2		Cluster-3		Cluster-3	
b) By Project Development Type	Type-I, II		Type-III		Type-IV		Type-IV	

Table N.2-2 Breakdown of Construction Cost for Sappaac ARC (Region-CAR)

(₱'000)

Description	Q'ty	Unit	Unit Rate	Amount F/C	Amount L/C	Amount Total
A. Agricultural Development						
1) Nursery						
a) Land preparation for seed and seedling bed	500	sq.m	0.02	0	10	10
b) Compost house	20	sq.m	2	8	32	40
c) Office and warehouse	9	sq.m	3.5	6	25	31
d) Machinery and tools	1	lot	80	40	40	80
				54	107	161
2) Training & Demonstration Farm						
a) Farm preparation	3	ha	40	0	120	120
b) Motorcycle	2	unit	25	50	0	50
c) Office furniture/equipment	1	lot	25	0	25	25
				50	145	195
3) Carabao Dispersal						
a) Carabao (female)	15	head	20	0	300	300
4) Carabao Mini Breeding Station (Bull Camp)						
a) Carabao (male)	1	head	40	0	40	40
b) Animal shed	50	sq.m	3.5	35	140	175
				35	180	215
5) Poultry Development						
a) Poultly incubator (kerosene type)	1	unit	80	0	80	80
Sub-total of A				139	812	951
B. Agricultural Infrastructure Development						
1) Irrigation Development						
a) Creek intake	1	place	200	60	140	200
b) Transmission pipeline (PE pipe ϕ100mm)	950	l.m	0.88	836	0	836
c) Excavation and pipe installation	1	lot	-	0	418	418
d) Small water impounding dam	1	place	1,854	640	1,214	1,854
e) Delivery pipeline (PE pipe ϕ100mm)	410	l.m	0.88	361	0	361
f) Excavation and pipe installation	1	lot	-	0	180	180
g) Distribution canal (open canal)	2,830	l.m	0.45	255	1,019	1,274

h) Other related structures	1	lot	-	215	297	512
				2,367	3,268	5,635
2) Drainage Development						
a) Drainage canal	1,200	l.m	0.2	48	192	240
b) Drainage culvert (RC φ300mm)	8	place	4	6	26	32
c) Other related structures	1	lot		5	22	27
				60	239	299
3) Farm Roads Development						
a) New construction (gravel surface)	1.84	km	1,163	856	1,284	2,140
b) -do- (concrete surface)	1.46	km	2,459	2,154	1,436	3,590
c) Culvert (RC φ300mm)	5	place	4	4	16	20
				3,014	2,736	5,750
Sub-total of B				5,441	6,243	11,684
C. Rural Infrastructure Development						
1) Rural Roads Development						
a) Improvement (Barangay road with gravel surface)	4.5	km	984	1,771	2,657	4,428
b) Upgrading (Barangay road with concrete surface)	2.3	km	2,899	4,001	2,667	6,668
c) Creek crossing (spillway type, RCφ300mm*1, L=10m)	1	place	97	39	58	97
d) Culvert (RC φ300mm)	5	place	4	4	16	20
e) Public transport vehicle	1	lot	300	240	60	300
				6,055	5,458	11,513
2) Rural Water Supply Development						
a) Deep well with hand pump (level-I)	9	place	240	1,296	864	2,160
3) Other Social Infrastructure Development						
a) Rehabilitation/improvement of elementary school	1	lot	20	6	14	20
a) Const. of day care center	1	lot	180	54	126	180
c) Const. of barangay hall/multi-purpose center	1	lot	180	54	126	180
d) Rehabilitation/improve. of barangay health center	1	lot	20	6	14	20
e) Paramedical supplies/equipment/facilities	1	lot	100	30	70	100
				150	350	500
4) Strengthening Motor Pool for O/M Works						
a) Supply of O/M equipment to Municipal Gov.	1	lot	15,000	15,000	0	15,000
Sub-total of C				22,501	6,672	29,173

D. Post-Harvest Development					
1) Agricultural Machinery					
a) Sprayer	6 unit	2.9	17	0	17
b) Animal drawn plow	6 unit	1.2	2	5	7
c) Comb-tooth harrow	6 unit	1.0	2	4	6
d) Animal drawn sledge	6 unit	0.5	1	2	3
			22	11	33
2) Post-Harvest & Agro-Industry Facilities					
a) Multi-purpose dryer	2 place	395.5	237	554	791
b) Mechanical dryer	1 unit	106.0	32	74	106
c) Reaper	2 unit	90.0	54	126	180
d) Rice thresher (foot type)	7 unit	1.9	4	9	13
e) Rice thresher (engine type)	1 unit	48.5	15	34	49
f) Winnower	7 unit	2.0	4	10	14
g) Warehouse	1 unit	659.0	198	461	659
h) Rice agro-industry center	1 place	718.5	216	503	719
i) Corn sheller (handy type)	5 unit	12.5	19	44	63
			778	1,815	2,593
Sub-total of D			800	1,826	2,626
E. Institutional Development					
1) Community Development Program					
a) Pick-up	1 unit	390	390	0	390
b) Motorbike	1 〃	80	80	0	80
c) Office furniture/equipment	1 lot	200	0	200	200
			470	200	670
Sub-total of E			470	200	670
Total of Sappaac ARC			29,351	15,753	45,104

Table N.2-3 Breakdown of Construction Cost for Cofcaville ARC (Region-II)

(₱'000)

Description	Q'ty	Unit	Unit Rate	Amount F/C	Amount L/C	Amount Total
A. Agricultural Development						
1) Nursery						
a) Land preparation for seed and seedling bed	500	sq.m	0.02	0	10	10
b) Compost house	20	sq.m	2	8	32	40
c) Office and warehouse	9	sq.m	3.5	6	25	31
d) Machinery and tools	1	lot	80	40	40	80
				54	107	161
2) Training & Demonstration Farm						
a) Farm preparation	3	ha	40	0	120	120
b) Motorcycle	2	unit	25	50	0	50
c) Office furniture/equipment	1	lot	25	0	25	25
				50	145	195
3) Carabao Dispersal						
a) Carabao (female)	15	head	20	0	300	300
4) Carabao Mini Breeding Station (Bull Camp)						
a) Carabao (male)	1	head	40	0	40	40
b) Animal shed	50	sq.m	3.5	35	140	175
				35	180	215
5) Poultry Development						
a) Poultly incubator (kerosene type)	1	unit	80	0	80	80
Sub-total of A				139	812	951
B. Agricultural Infrastructure Development						
1) Irrigation Development						
a) Small water impounding dam	1	place	2,000	688	1,312	2,000
b) Irrigation canal (delivery & distribution)	1,200	l.m	0.45	108	432	540
c) Other related structures	1	lot	-	80	174	254
				876	1,918	2,794
2) Drainage Development						
a) Drainage canal	650	l.m	0.2	26	104	130
b) Drainage culvert (RC ϕ300mm)	5	place	4	4	16	20

c) Other related structures	1 lot	-	3	12	15
			33	132	165
3) Farm Roads Development					
a) New construction (gravel surface)	7.25 km	1,163	3,373	5,059	8,432
b) -do- (concrete surface)	1.4 km	2,459	2,066	1,377	3,443
c) Creek crossing (spillway type, RCϕ300mm*5, L=25m)	4 place	254	406	610	1,016
d) Culvert (RC ϕ300mm)	6 place	4	5	19	24
			5,849	7,065	12,914
Sub-total of B			6,758	9,115	15,873
C. Rural Infrastructure Development					
1) Rural Roads Development					
a) Improvement (Provincial road with gravel surface)	0.3 km	1,278	153	230	383
b) Improvement (Barangay road with gravel surface)	1.6 km	984	630	945	1,574
c) Upgrading (Barangay road with concrete surface)	1.9 km	2,899	3,305	2,203	5,508
d) Creek crossing (spillway type, RCϕ300mm*5, L=25m)	2 place	254	203	305	508
e) -do- (spillway type, RCϕ300mm*1, L=10m)	6 place	97	233	349	582
f) Culvert (RC ϕ300mm)	4 place	4	3	13	16
g) Public transport vehicle	1 lot	300	240	60	300
			4,767	4,105	8,872
2) Other Social Infrastructure Development					
a) Const. of additional classroom/bldg. (2)	1 lot	360	108	252	360
b) Paramedical supplies/equipment/facilities	1 lot	100	30	70	100
			138	322	460
3) Strengthening Motor Pool for O/M Works					
a) Supply of O/M equipment to Municipal Gov.	1 lot	15,000	15,000	0	15,000
Sub-total of C			19,905	4,427	24,332
D. Post-Harvest Development					
1) Agricultural Machinery					
a) Tractor	1 unit	1,433.3	1,433	0	1,433
b) Hand tractor	2 unit	34.3	21	48	69
c) Sprayer	12 unit	2.9	35	0	35
d) Animal drawn plow	3 unit	1.2	1	3	4
e) Comb-tooth harrow	3 unit	1.0	1	2	3

f) Animal drawn sledge	3 unit	0.5	0	1	2
			1,491	54	1,545
2) Post-Harvest & Agro-Industry Facilities					
a) Multi-purpose dryer	2 place	395.5	237	554	791
b) Mechanical dryer	1 unit	106.0	32	74	106
c) Reaper	2 unit	90.0	54	126	180
d) Rice thresher (foot type)	3 unit	1.9	2	4	6
e) Rice thresher (engine type)	1 unit	48.5	15	34	49
f) Winnower	3 unit	2.0	2	4	6
g) Warehouse	2 unit	659.0	395	923	1,318
h) Rice agro-industry center	1 unit	863.5	259	604	864
i) Corn sheller (handy type)	6 unit	12.5	23	53	75
j) Corn agro-industry center	1 place	934.0	280	654	934
			1,298	3,029	4,327
Sub-total of D			2,789	3,083	5,872
E. Institutional Development					
1) Community Development Program					
a) Pick-up	1 unit	390	390	0	390
b) Motorbike	1 〃	80	80	0	80
c) Office furniture/equipment	1 lot	200	0	200	200
			470	200	670
Sub-total of E			470	200	670
Total of Cofcaville ARC			30,061	17,637	47,698

Table N.2-4 Breakdown of Construction Cost for Marangog-Leyte ARC (Region-VIII)

(₱'000)

Description	Q'ty	Unit	Unit Rate	Amount F/C	Amount L/C	Amount Total
A. Agricultural Development						
1) Nursery						
a) Land preparation for seed and seedling bed	500	sq.m	0.02	0	10	10
b) Compost house	20	sq.m	2	8	32	40
c) Office and warehouse	9	sq.m	3.5	6	25	31
d) Machinery and tools	1	lot	80	40	40	80
				54	107	161
2) Training & Demonstration Farm						
a) Farm preparation	3	ha	40	0	120	120
b) Motorcycle	2	unit	25	50	0	50
c) Office furniture/equipment	1	lot	25	0	25	25
				50	145	195
3) Carabao Dispersal						
a) Carabao (female)	15	head	20	0	300	300
4) Carabao Mini Breeding Station (Bull Camp)						
a) Carabao (male)	1	head	40	0	40	40
b) Animal shed	50	sq.m	3.5	35	140	175
				35	180	215
5) Poultry Development						
a) Poultly incubator (kerosene type)	1	unit	80	0	80	80
Sub-total of A				139	812	951
B. Agricultural Infrastructure Development						
1) Irrigation Development						
a) River intake	2	place	200	120	280	400
b) Concrete water tank (2.0m * 2.0m * 2.0m)	13	place	44	195	377	572
c) Pipeline (PE pipe ϕ100mm) w/ fittings	2,850	l.m	0.88	2,508	0	2,508
d) -do- (PE pipe ϕ 75mm) w/ fittings	950	l.m	0.59	561	0	561
e) -do- (PE pipe ϕ 50mm) w/ fittings	990	l.m	0.29	287	0	287
f) -do- (PE pipe ϕ 38mm) w/ fittings	1,680	l.m	0.18	302	0	302
g) Excavation and pipe installation	1	lot	-	0	1,829	1,829

h) Pipeline river crossing	2	place	200	120	280	400
				4,093	2,766	6,859
2) Farm Roads Development						
a) New construction (gravel surface)	1.95	km	1,163	907	1,361	2,268
b) -do- (concrete surface)	1.25	km	2,459	1,844	1,230	3,074
c) Creek crossing (spillway type, RCϕ300mm*5, L=25m)	4	place	254	406	610	1,016
d) Culvert (RC ϕ300)	10	place	4	8	32	40
				3,166	3,232	6,398
Sub-total of B				7,259	5,998	13,257
C. Rural Infrastructure Development						
1) Rural Roads Development						
a) Improvement (Barangay road with gravel surface)	7.9	km	984	3,109	4,664	7,774
b) Upgrading (Barangay road with concrete surface)	1.7	km	2,899	2,957	1,971	4,928
c) River crossing(spillway type,RCϕ600mm*30,L=100m)	1	place	1,910	764	1,146	1,910
d) -do- (spillway type,RCϕ600mm*35,L=200m)	1	place	2,630	1,052	1,578	2,630
e) Culvert (RC ϕ300)	10	place	4	8	32	40
f) Public transport vehicle	1	lot	300	240	60	300
				8,130	9,451	17,581
2) Rural Water Supply Development						
a) Rehabilitation of spring box (level-II)	1	place	130	0	130	130
b) Supply pipeline (GI pipe, ϕ 63mm) w/ fittings	30	l.m	0.35	11	0	11
c) -do- (GI pipe, ϕ 50mm) w/ fittings	410	l.m	0.30	123	0	123
d) -do- (GI pipe, ϕ 38mm) w/ fittings	1,570	l.m	0.19	298	0	298
e) -do- (GI pipe, ϕ 25mm) w/ fittings	2,420	l.m	0.13	315	0	315
f) -do- (GI pipe, ϕ 19mm) w/ fittings	160	l.m	0.08	13	0	13
g) Excavation and pipe installation	1	lot	-	0	380	380
h) Water tank (V= 3.6 cu.m)	2	place	44	30	58	88
i) Water quality analysis	1	lot	2	0	2	2
j) Communal faucet (ϕ 13mm * 2 faucets)	13	place	7	91	0	91
				880	570	1,450
3) Other Social Infrastructure Development						
a) Construction of barangay health center	1	lot	180	54	126	180
b) Paramedical supplies/equipment/facilities	1	lot	100	30	70	100
c) Expansion of barangay hall to multi-purpose center	1	lot	150	45	105	150

			129	301	430
4) Strengthening Motor Pool for O/M Works					
a) Supply of O/M equipment to Municipal Gov.	1 lot	15,000	15,000	0	15,000
Sub-total of C			24,139	10,322	34,461
D. Post-Harvest Development					
1) Agricultural Machinery					
a) Hand tractor	1 unit	34.3	10	24	34
b) Sprayer	5 unit	2.9	15	0	15
c) Animal drawn plow	3 unit	1.2	1	3	4
d) Comb-tooth harrow	3 unit	1.0	1	2	3
e) Animal drawn sledge	3 unit	0.5	0	1	2
			27	30	57
2) Post-Harvest & Agro-Industry Facilities					
a) Multi-purpose dryer	2 place	395.5	237	554	791
b) Mechanical dryer	1 unit	106.0	32	74	106
c) Rice thresher (engine type)	1 unit	48.5	15	34	49
d) Warehouse w/ solar dryer	1 unit	659.0	198	461	659
e) Corn sheller (handy type)	2 unit	12.5	8	18	25
			489	1,141	1,630
Sub-total of D			516	1,170	1,686
E. Institutional Development					
1) Community Development Program					
a) Pick-up	1 unit	390	390	0	390
b) Motorbike	1 〃	80	80	0	80
c) Office furniture/equipment	1 lot	200	0	200	200
			470	200	670
Sub-total of E			470	200	670
Total of Marangog-Leyte ARC			32,523	18,502	51,025

Table N.2-5 Breakdown of Construction Cost for Silae ARC (Region-X)

(₱'000)

Description	Q'ty	Unit	Unit Rate	Amount F/C	Amount L/C	Amount Total
A. Agricultural Development						
1) Nursery						
a) Land preparation for seed and seedling bed	500	sq.m	0.02	0	10	10
b) Compost house	20	sq.m	2	8	32	40
c) Office and warehouse	9	sq.m	3.5	6	25	31
d) Machinery and tools	1	lot	80	40	40	80
				54	107	161
2) Training & Demonstration Farm						
a) Farm preparation	3	ha	40	0	120	120
b) Motorcycle	2	unit	25	50	0	50
c) Office furniture/equipment	1	lot	25	0	25	25
				50	145	195
3) Carabao Dispersal						
a) Carabao (female)	15	head	20	0	300	300
4) Carabao Mini Breeding Station (Bull Camp)						
a) Carabao (male)	1	head	40	0	40	40
b) Animal shed	50	sq.m	3.5	35	140	175
				35	180	215
5) Poultry Development						
a) Poultly incubator (kerosene type)	1	unit	80	0	80	80
Sub-total of A				139	812	951
B. Agricultural Infrastructure Development						
1) Irrigation Development						
(Daiacutan area)						
a) Creek intake	1	place	200	60	140	200
b) Delivery canal	250	l.m	0.45	23	90	113
c) Farm pond	1	place	1,587	577	1,010	1,587
d) Distribution canal	1,400	l.m	0.45	126	504	630
e) Other related structures	1	lot	-	79	174	253
(Silae area)						

f) Creek intake	1	place	200	60	140	200
g) Distribution canal	870	l.m	0.45	78	313	392
h) Other related structures	1	lot	-	14	45	59
				1,016	2,417	3,433
2) Drainage Development						
a) Drainage canal	1,480	l.m	0.2	59	237	296
b) Drainage culvert (RC φ300mm)	9	place	4	7	29	36
c) Improvement of creek (small)	350	l.m	0.1	7	28	35
d) Improvement of creek (large)	1,500	l.m	0.3	90	360	450
e) Other related structures	1	lot	-	16	65	82
				180	719	899
3) Farm Roads Development						
a) New construction (gravel surface)	2.2	km	1,163	1,023	1,535	2,559
b) -do- (concrete surface)	0.5	km	2,459	738	492	1,230
c) Creek crossing (spillway type, RCφ600mm*2, L=25m)	2	place	286	229	343	572
d) -do- (spillway type, RCφ300mm*5, L=25m)	1	place	254	102	152	254
e) -do- (spillway type, RCφ300mm*1, L=10m)	4	place	97	155	233	388
f) Culvert (RC φ600mm)	2	places	8.8	4	14	18
g) -do- (RC φ300mm)	14	places	4	11	45	56
				2,261	2,814	5,075
Sub-total of B				3,457	5,950	9,407
C. Rural Infrastructure Development						
1) Rural Roads Development						
a) Public transport vehicle (Silae & Dalacutan)	2	lot	300	480	120	600
2) Rural Water Supply Development						
a) Deep well with hand pump (level-I)	5	place	240	720	480	1,200
3) Rural Electrification						
a) Electric power line construction (single phase)	3.5	km	300	840	210	1,050
4) Other Social Infrastructure Development						
(Silae area)						
a) Paramedical supplies/equipment/facilities	1	lot	100	30	70	100
(Dalacutan area)						
b) Construction of primary school/bldg.(4)	1	lot	720	216	504	720
c) Construction of barangay health center	1	lot	180	54	126	180

d) Paramedical supplies/equipment/facilities	1 lot	100	30	70	100
e) Construction of day care center	1 lot	180	54	126	180
f) Expansion of barangay hall to multi-purpose center	1 lot	150	45	105	150
			429	1,001	1,430
5) Strengthening Motor Pool for O/M Works					
a) Supply of O/M equipment to Municipal Gov.	1 lot	15,000	15,000	0	15,000
Sub-total of C			17,469	1,811	19,280
D. Post-Harvest Development					
1) Agricultural Machinery					
a) Hand tractor	1 unit	34.3	10	24	34
b) Sprayer	3 unit	2.9	9	0	9
c) Animal drawn plow	3 unit	1.2	1	3	4
d) Comb-tooth harrow	3 unit	1.0	1	2	3
e) Animal drawn sledge	3 unit	0.5	0	1	2
			21	30	51
2) Post-Harvest & Agro-Industry Facilities					
a) Multi-purpose dryer	1 place	395.5	119	277	396
b) Mechanical dryer	1 unit	106.0	32	74	106
c) Reaper	1 unit	90.0	27	63	90
d) Rice thresher (engine type)	1 unit	48.5	15	34	49
e) Warehouse with solar dryer	1 unit	659.0	198	461	659
f) Corn agro-industry center	1 unit	934.0	280	654	934
			670	1,563	2,233
Sub-total of D			691	1,593	2,284
E. Institutional Development					
1) Community Development Program					
a) Pick-up	1 unit	390	390	0	390
b) Motorbike	1 〃	80	80	0	80
c) Office furniture/equipment	1 lot	200	0	200	200
			470	200	670
Sub-total of E			470	200	670
Total of Silae ARC			22,226	10,366	32,592

Table N.2-6 Breakdown of Community Development & Support Services Cost (For Four Years Duration)

Description	Q'ty	Unit	Unit Rate	Amount F/C	Amount L/C	Amount Total
			₱	₱	₱	₱
A. Agricultural Support Services						
1) Training & Demonstration Farm						
a. Personnel services						
- Technologist (1)	2.5	M/M	16,500	0	41,250	41,250
- Site forest ranger (1)	2.5	M/M	11,000	0	27,500	27,500
- Development workers (4)	48.0	M/M	6,000	0	288,000	288,000
b. Supplies and materials						
- Farming input & materials	l.s.	-	-	0	25,000	25,000
- Teaching materials	l.s.	-	-	0	12,500	12,500
- Training materials	l.s.	-	-	0	3,500	3,500
- Office supplies	l.s.	-	-	0	2,000	2,000
c. Travel allowance	l.s.	-	-	0	60,000	60,000
e. Miscellaneous expence	l.s.	-	-	0	40,000	40,000
Sub-Total				0	499,750	499,750
2) Animal Husbandry						
a. Supplies/consumables/vaccines	l.s.	-	10,000	0	10,000	10,000
b. Miscellaneous expence	1	lot	2,000	0	2,000	2,000
Sub-Total				0	12,000	12,000
Total of A (Annual)				0	511,750	511,750
Total for 4 Years				0	2,047,000	2,047,000
B. Institutional Development						
1) Community Development Program						
a. Personnel services						
- Community dev. worker (1)	12	M/M	16,500	0	198,000	198,000
- Specialist (3)	9	M/M	11,000	0	79,200	79,200
- Assistant (1)	3	M/M	9,500	0	14,250	14,250
- Secretary (1)	3	M/M	9,500	0	28,500	28,500
b. Supplies and materials	l.s.	-	-	0	12,000	12,000
c. Travel allowance	l.s.	-	-	0	42,000	42,000
d. Fuel/oil for vehicles	l.s.	-	-	0	30,000	30,000
e. Miscellaneous expence	l.s.	-	-	0	45,000	45,000
Total of B (Annual)				0	448,950	448,950
Total for 4 Years				0	1,795,800	1,795,800
Grand Total				0	3,842,800	3,842,800

Table N.2-7 Breakdown of Road Construction Cost

1) Provincial Road Improvement/Upgrading (per km)

Description	Unit	Unit Rate	Gravel Surface		Concrete Surface	
			Q'ty	Amount	Q'ty	Amount
		(₱)		(₱'000)		(₱'000)
Temporary works	L.S.	--		213		692
Clearing & grubbing	sq.m	5	0	0	0	0
Earth excavation	cu.m	55	0	0	0	0
Rock excavation	cu.m	360	0	0	0	0
Sub grade preparation	sq.m	12	9000	108	9000	108
Embankment/borrow	cu.m	185	960	178	960	178
Sub-base cource	cu.m	240	660	158	660	158
Base course (Gravel pavement)	cu.m	340	900	306	0	0
Concrete pavement	sq.m	450	0	0	6,000	2,700
Grouted riprap	cu.m	1,050	300	315	300	315
Total Cost per km				1,278		4,151

2) Barangay Road Improvement/Upgrading

Description	Unit	Unit Rate	Gravel Surface		Concrete Surface	
			Q'ty	Amount	Q'ty	Amount
		(₱)		(₱'000)		(₱'000)
Temporary works	L.S.	--		164		483
Clearing & grubbing	sq.m	5	0	0	0	0
Earth excavation	cu.m	55	0	0	0	0
Rock excavation	cu.m	360	20	7	20	7
Sub grade preparation	sq.m	12	6000	72	6000	72
Embankment/borrow	cu.m	185	600	111	600	111
Sub-base cource	cu.m	240	460	110	460	110
Base course (Gravel pavement)	cu.m	340	600	204	0	0
Concrete pavement	sq.m	450	0	0	4,000	1,800
Grouted riprap	cu.m	1,050	300	315	300	315
Total Cost per km				984		2,899

3) Farm Road New Construction

Description	Unit	Unit Rate	Gravel Surface		Concrete Surface	
			Q'ty	Amount	Q'ty	Amount
		(₱)		(₱'000)		(₱'000)
Temporary works	L.S.	--		268		568
Clearing & grubbing	sq.m	5	6,000	30	6,000	30
Earth excavation	cu.m	55	3,060	168	3,060	168
Rock excavation	cu.m	360	340	122	340	122
Sub grade preparation	sq.m	12	3500	42	3500	42
Embankment/borrow	cu.m	185	250	46	250	46
Sub-base cource	cu.m	240	310	74	310	74
Base course (Gravel pavement)	cu.m	340	375	128	0	0
Concrete pavement	sq.m	450	0	0	2,500	1,125
Grouted riprap	cu.m	1,050	270	284	270	284
Total Cost per km				1,163		2,459

Table N.2-8 Construction Cost for Small Water Impounding Dam in Sappac ARC

Description	Q'ty	Unit	Unit Rate	Amount		
				F/C	L/C	Total
			₱	₱	₱	₱
1. Temporary Works		L.S.	-	147,763	280,231	427,993
2. Clearing and Grubbing	1,313	sq.m	10	0	13,130	13,130
3. Diversion & Care of River		L.S.	-	82,090	153,495	235,586
4. Earth Work						
-Excavation	889	cu.m	65	23,114	34,671	57,785
-Dam embankment	2,502	cu.m	160	160,128	240,192	400,320
-Toe rock	68	cu.m	640	8,704	34,816	43,520
-Filter drain	46	cu.m	640	5,888	23,552	29,440
-Boulder riprap	65	cu.m	650	0	42,250	42,250
-Grass sodding	481	sq.m	30	0	14,430	14,430
5. Concrete/Structure Work						
-Outlet works						
·Outlet pipe(SPϕ200mm)	25	m	1,900	47,500	0	47,500
·Gate valve (ϕ200 mm)	1	unit	32,000	32,000	0	32,000
·Excavation	10.0	cu.m	60	0	600	600
·Backfill	5.0	cu.m	55	0	275	275
·Concrete	5.0	cu.m	5,800	5,800	23,200	29,000
·RSB	400	kg	25	5,000	5,000	10,000
·Grouted riprap	1.8	cu.m	1,600	0	2,880	2,880
·Gravel bedding	0.8	cu.m	700	0	560	560
-Spillway w/ Bridge						
·Excavation	176	cu.m	60	0	10,560	10,560
·Backfill	57	cu.m	55	0	3,135	3,135
·Concrete	40.2	cu.m	5,800	46,632	186,528	233,160
·RSB	3,220	kg	25	40,250	40,250	80,500
·Grouted riprap	6	cu.m	1,600	0	9,600	9,600
·Gravel bedding	12.5	cu.m	700	0	8,750	8,750
-Misc. works		L.S.	-	35,436	58,268	93,704
6. Road						
-Gravel surface	31.2	cu.m	720	0	22,464	22,464
-Sub-base course	22.9	cu.m	240	0	5,496	5,496
Total				640,306 (640,000)	1,214,332 (1,214,000)	1,854,638 (1,854,000)

Table N.2-9 Construction Cost for Small Water Impounding Dam in Cofcavill ARC

Description	Q'ty	Unit	Unit Rate	Amount F/C	Amount L/C	Amount Total
			₱	₱	₱	₱
1. Temporary Works		L.S.	-	158,709	302,868	461,577
2. Clearing and Grubbing	1,347	sq.m	10	0	13,470	13,470
3. Diversion & Care of River		L.S.	-	88,172	166,015	254,187
4. Earth Work						
-Excavation	897	cu.m	65	23,322	34,983	58,305
-Dam embankment	2,165	cu.m	160	138,560	207,840	346,400
-Boulder riprap	46	cu.m	650	0	29,900	29,900
-Grass sodding	469	sq.m	30	0	14,070	14,070
5. Concrete/Structure Work						
-Outlet works						
·Outlet pipe(SPφ150mm)	24	m	1,300	31,200	0	31,200
·Gate valve (φ150 mm)	1	unit	23,000	23,000	0	23,000
·Excavation	10.0	cu.m	60	0	600	600
·Backfill	5.0	cu.m	55	0	275	275
·Concrete	5.0	cu.m	5,800	5,800	23,200	29,000
·RSB	400	kg	25	5,000	5,000	10,000
·Grouted riprap	1.8	cu.m	1,600	0	2,880	2,880
·Gravel bedding	0.8	cu.m	700	0	560	560
-Spillway w/ Bridge						
·Excavation	181	cu.m	60	0	10,860	10,860
·Backfill	60	cu.m	55	0	3,300	3,300
·Concrete	40.5	cu.m	5,800	46,980	187,920	234,900
·RSB	3,240	kg	25	40,500	40,500	81,000
·Grouted riprap	5.9	cu.m	1,600	0	9,440	9,440
·Gravel bedding	11.8	cu.m	700	0	8,260	8,260
-Misc. works		L.S.	-	30,496	58,559	89,055
6. Road						
-Gravel surface	53.3	cu.m	720	0	38,376	38,376
-Sub-base course	39.8	cu.m	240	0	9,552	9,552
7. Temporary road	240	l.m.	1,000	96,000	144,000	240,000
Total				687,738 (688,000)	1,312,428 (1,312,000)	2,000,166 (2,000,000)

Table N.2-10 Construction Cost for Water Tank for Rural Water Supply in Marangog-Leyte ARC

Description	Q'ty	Unit	Unit Rate	Amount F/C	Amount L/C	Amount Total
			₱	₱	₱	₱
Concrete	3.94	cu.m	5,800	4,570	18,282	22,852
Gravel bedding	0.86	cu.m	700	0	602	602
RSB	413.00	kg	25	5,163	5,163	10,325
Excavation	7.25	cu.m	60	0	435	435
Backfilling	4.56	cu.m	55	0	251	251
G.I. pipe (φ50mm w/ fittings)	6.1	m	300	1,830	0	1,830
Gate valve (φ50mm)	2	unit	800	1,600	0	1,600
Installation of pipes & valves		L.S.		0	1,715	1,715
Miscellaneous works		L.S.		1,316	2,645	3,961
Total				14,479	29,092	43,571 (44,000)

Table N.2-11 Construction Cost for Water Tank for Tank Irrigation System in Marangog-Leyte ARC

Description	Q'ty	Unit	Unit Rate	Amount F/C	Amount L/C	Amount Total
			₱	₱	₱	₱
Concrete	3.94	cu.m	5,800	4,570	18,282	22,852
Gravel bedding	0.79	cu.m	700	0	553	553
RSB	413.00	kg	25	5,163	5,163	10,325
Excavation	7.03	cu.m	60	0	422	422
Backfilling	4.49	cu.m	55	0	247	247
G.I. pipe (φ50mm w/ fittings)	5.0	m	300	1,500	0	1,500
G.I. pipe (φ38mm w/ fittings)	2.3	m	190	437	0	437
Gate valve (φ75mm)	1	unit	1,000	1,000	0	1,000
Gate valve (φ38mm)	1	unit	600	600	0	600
Installation of pipes & valves		L.S.		0	1,769	1,769
Miscellaneous works		L.S.		1,327	2,643	3,970
Total				14,597	29,078	43,675 (44,000)

Table N.2-12 Construction Cost for Farm Pond for Irrigation System in Silae ARC (Dalacutan Area)

Description	Q'ty	Unit	Unit Rate	Amount F/C	Amount L/C	Amount Total
			₱	₱	₱	₱
1. Temporary Works		L.S.	-	133,169	233,167	366,336
2. Clearing and Grubbing	1,900	sq.m	10	0	19,000	19,000
3. Diversion & Care of River		L.S.	-	73,983	126,371	200,353
4. Earth Work						
-Excavation	1,180	cu.m	65	30,680	46,020	76,700
-Dam embankment	3,250	cu.m	160	208,000	312,000	520,000
-Boulder riprap	73	cu.m	650	0	47,450	47,450
-Grass sodding	750	sq.m	30	0	22,500	22,500
-Gravel pavement	28	cu.m	720	0	20,160	20,160
5. Concrete/Structure Work						
-Outlet works						
·Outlet pipe(SPϕ150mm)	12	m	1,300	15,600	0	15,600
·Gate valve (ϕ150 mm)	1	unit	23,000	23,000	0	23,000
·Excavation	15.82	cu.m	60	0	949	949
·Backfill	14.29	cu.m	55	0	786	786
·Concrete	5.0	cu.m	5,800	5,800	23,200	29,000
·RSB	400	kg	25	5,000	5,000	10,000
·Grouted riprap	1.4	cu.m	1,600	0	2,240	2,240
·Gravel bedding	0.8	cu.m	700	0	560	560
-Spillway						
·Excavation	22.1	cu.m	60	0	1,326	1,326
·Backfill	10.4	cu.m	55	0	572	572
·Concrete	4.6	cu.m	5,800	5,336	21,344	26,680
·RSB	370	kg	25	4,625	4,625	9,250
·Grouted riprap	1.4	cu.m	1,600	0	2,240	2,240
·Gravel bedding	1.8	cu.m	700	0	1,260	1,260
-Stair		L.S.	14,000	0	14,000	14,000
-Misc. works		L.S.	-	11,872	15,620	27,493
6. Access road	150	l.m.	1,000	60,000	90,000	150,000
Total				577,065 (577,000)	1,010,390 (1,010,000)	1,587,455 (1,587,000)

Table N.2-13 Consulting Service Costs for Two Marginal Areas

Description	Quantity	Unit	Rate ('000 P)	Total Amount F/C ('000 P)	Total Amount L/C ('000 P)
1. Preparation Works (2 month)					
1.1 Foreign Currency					
Consultants Remuneration	2	month	750	1500	
Out-of-Pocket Expenses					
International Travel Expenses	1	trip	42	42	
Reimbursable Cost Items and Others (10%)		L.S		154	
Miscellaneous (10%)		L.S		170	
Sub-Total				1,866	
1.2 Local Currency					
Consultants Remuneration	-	month	100		0
Consultants Per Diem					
Foreign	2	month	115		230
Local	-	month	80		0
Living Allowance and Quarters					
Foreign	2	month	20		40
Local	-	month	10		0
Local Communication and Transportation		L.S			54
Printing of Report		L.S			45
Miscellaneous (10%)		L.S			37
Sub-Total					406
2. Detailed Design and Construction Supervision (24 month)					
2.1 Foreign Currency					
Consultants Remuneration	4	month	750	3,000	
Out-of-Pocket Expenses					
International Travel Expenses	2	trip	42	84	
Reimbursable Cost Items and Others (10%)				308	
Miscellaneous (10%)				339	
Sub-Total				3,731	
2.2 Local Currency					
Consultants Remuneration	20	month	100		2,000
Consultants Per Diem					
Foreign	4	month	115		460
Local	20	month	80		1,600
Living Allowance and Quarters					
Foreign	4	month	20		80
Local	16	month	10		160
Local Communication and Transportation		L.S			627
Printing of Report		L.S			581
Miscellaneous (10%)		L.S			551
Sub-Total					6,059
3. Institutional Development and Support Services (42 month)					
3.1 Local Currency					
Consultants Remuneration (Local)	-	month	100		0
Consultants Per Diem (Local)	-	month	80		0
Living Allowance and Quarters (Local)	-	month	15		0
Local Communication and Transportation		L.S			1,008
Printing of Report		L.S			941
Miscellaneous (10%)					195
Sub-Total					2,144
Total				5,597	8,609

Note : Schedule of consulting services is given in Figure N.2-1.

Table N.2-14 Breakdown of Project Cost for Sappaac ARC (Region - CAR)

(₱'000)

Description	Q'ty	Unit	Unit Rate	Amount F/C	Amount L/C	Amount Total	Implementing Agencies: ODA DAR	ODA DA	ODA DPWH	ODA NIA	ODA DTI	ODA DOH	ODA LGU	PCC	LGU	ARC	Total
1. Construction Cost																	
1.1 Agricultural Development																	
1) Nursery																	
a) Land for seed and seedling bed	500	sq.m	0.02	0	10	10										10	10
b) Compost house	20	sq.m	2	8	32	40		40									40
c) Office and warehouse	9	sq.m	3.5	6	25	31		31									31
d) Machinery and tools	1	lot	80	40	40	80		80									80
				54	107	161		151								10	161
2) Training & On-farm Demonstration Farm																	
a) Farm Preparation	3	ha	40	0	120	120									100	20	120
b) Motorcycyle	2	unit	25	50	0	50		50									50
d) Office furniture/equipment	1	lot	25	0	25	25		25									25
				50	145	195		75							100	20	195
3) Carabao Dispersal																	
a) Carabao (female)	15	head	20	0	300	300								300			300
				0	300	300								300			300
4) Carabao Mini Breeding Station Bull Camp)																	
a) Carabao (male)	1	head	40	0	40	40								40			40
b) Animal shed	50	sq.m	3.5	35	140	175		175									175
				35	180	215		175						40			215
5) Poultry Incubator																	
a) Poultry Incubator (kerosene type)	1	unit	80	0	80	80		80									80
				0	80	80		80									80
Sub-Total of 1.1				139	812	951		481						340	100	30	951
1.2 Agricultural Infrastructure Development																	
1) Irrigation Development																	
a) Creek intake	1	place	200	60	140	200				200							200
b) Transmission pipeline (PE pipe ⌀ 100mm)	950	l.m	0.88	836	0	836				836							836
c) Excavation and pipe installation	1	lot	-	0	418	418				418							418
d) Small water impounding dam	1	place	1,854	640	1,214	1,854				1,854							1,854
e) Delivery pipeline (PE pipe ⌀ 100mm)	410	l.m	0.88	361	0	361				361							361
f) Excavation and pipe installation	1	lot	-	0	180	180				180							180
g) Distribution canal (open canal)	2,830	l.m	0.45	255	1,019	1,274				1,274							1,274
h) Other related structures	1	lot	-	215	297	512				512							512
				2,366	3,268	5,634				5,634							5,634
2) Drainage Development																	
a) Drainage canal	1,200	l.m	0.2	48	192	240				240							240
b) Drainage culvert (RC ⌀ 300mm)	8	place	4	6	26	32				32							32
c) Other related structures	1	lot	-	5	22	27				27							27
				59	240	299				299							299
3) Farm Road Development																	
a) New construction (gravel surface)	2	km	1,163	856	1,284	2,140							2,140				2,140
b) -do- (concrete surface)	1	km	2,450	2,154	1,436	3,590							3,590				3,590
c) Culvert (RC ⌀ 300mm * 1)	5	place	4	4	16	20							20				20
				3,014	2,736	5,750							5,750				5,750
Sub-Total of 1.2				5,439	6,244	11,683				5,933			5,750				11,683
1.3 Rural Infrastructure Development																	
1) Rural Roads Development																	
a) Improvement (Barangay road with gravel surface)	4.5	km	984	1,771	2,657	4,428			4,428								4,428
b) Upgrading (Barangay road with concrete surface)	2.3	km	2,899	4,001	2,667	6,668			6,668								6,668
c) Creek crossing (spillway type, RC ⌀ 300mm*1, L=10m)	1	place	97	39	58	97			97								97
d) Culvert (RC ⌀ 300mm)	5	place	4	4	16	20			20								20
e) Public transport vehicle	1	lot	300	240	60	300							300				300
				6,055	5,458	11,513			11,213				300				11,513
2) Rural Water Supply Development																	
a) Deep well with hand pump (level-1)	9	place	240	1,296	864	2,160			2,160								2,160
									2,160								2,160
3) Other Social Infrastructure Development																	
a) Rehabilitation/improvement of elementary school	1	lot	20	6	14	20			20								20
b) Construction of day care center	1	lot	180	54	126	180						180					180
c) Construction of barangay hall/multi-purpose center	1	lot	180	54	126	180							180				180
d) Rehabilitation/improve of barangay health center	1	lot	20	6	14	20						20					20
e) Paramedical supplies/equipment/facilities	1	lot	100	30	70	100						100					100
				150	350	500			20			300	180				500
4) Strengthening Motorpool for O/M Works																	
a) Supply of O/M equipment to Municipal Gov.	1	lot	15,000	15,000	0	15,000							15,000				15,000
Sub-total of 1.3				22,501	6,672	29,173			13,393			300	15,480				29,173
1.4 Post-Harvest Development																	
1) Agricultural Machinery																	
a) Sprayer	6	unit	2.9	17	0	17		17									
b) Animal drawn plot	6	unit	1.2	2	5	7		7									
c) Comb-tooth harrow	6	unit	1.0	2	4	6		6									
d) Animal drawn sledge	6	unit	0.5	1	2	3		3									
				22	11	33		33									
2) Post-Harvest & Agro-Industry Facilities																	
a) Multi-purpose dryer	2	place	395.5	237	554	791					791						791
b) Mechanical Dryer	1	unit	106.0	32	74	106					106						106
c) Reaper	2	unit	90.0	54	126	180					180						180
d) Rice thresher (foot type)	7	unit	1.9	4	9	13					13						13
e) Rice thresher (engin type)	1	unit	48.5	15	34	49					49						49
f) Winnower	7	unit	2.0	4	10	14					14						14
g) Warehouse	1	unit	659.0	198	461	659					659						659
h) Rice agro-industry center	1	place	718.5	216	503	719					719						719
i) Corn sheller (hand type)	5	unit	12.5	19	44	63					63						63
				778	1,815	2,593					2,593						2,593
Sub-total of 1.4				800	1,826	2,626		33			2,593						2,626
1.5 Institutional Development																	
1) Community Development Program																	
a) Pick-up	1	unit	390	390	0	390							390				390
b) Motorbike	1	"	80	80	0	80							80				80
c) Office furniture/equipment	1	lot	200	0	200	200							200				200
				470	200	670							670				670
Sub-total of 1.5				470	200	670							670				670
Total				29,350	15,755	45,103	0	514	13,393	5,933	2,593	300	21,900	340	100	30	45,103
2. Community Development & Support Services																	
2.1 Agricultural Support services	LS				2,047	2,047		2,047									2,047
2.2 Institutional Development	LS				1,795	1,795	898			897							1,795
Total					3,842	3,842	898	2,047		897							3,842
3. Associated Cost																	
3.1 Pre-engineering Cost (5 % of 1)	LS			1,467	788	2,255		58	1,522	674							2,255
3.2 Administration Cost (10 % of 1+2)	LS			2,935	1,960	4,895	90	256	1,339	683	259	30	2,190	34	10	3	4,895
3.3 Consulting Services (refer to Table N.2-13)	LS			2,799	4,305	7,104	7,104										7,104
Total				7,201	7,052	14,254	7,194	315	2,862	1,357	259	30	2,190	34	10	3	14,254
4. Land Acquisition	LS				528	528	528										528
					528	528	528										528
5. Physical contingency (10 % of 1+2)				2,935	1,960	4,895	90	256	1,339	683	259	30	2,190	34	10	3	4,895
Grand-Total				39,487	29,135	68,622	8,710	3,132	17,594	8,870	3,112	360	26,280	408	120	36	68,522

Table N.2-15 Breakdown of Project Cost for Cofcaville ARC (Region - II)

(₱'000)

Description	Q'ty	Unit	Unit Rate	Amount F/C	Amount L/C	Amount Total	Implementing Agencies ODA DAR	ODA DA	ODA DPWH	ODA NIA	ODA DTI	ODA DOH	ODA LGU	PCC	LGU	ARC	Total
1. Construction Cost																	
1.1 Agricultural Development																	
1) Nursery																	
a) Land for seed and seedling bed	500	sq.m	0.02	0	10	10										10	10
b) Compost house	20	sq.m	2	8	32	40		40									40
c) Office and warehouse	9	sq.m	3.5	6	25	31		31									31
d) Machinery and tools	1	lot	80	40	40	80		80									80
				54	107	161		151								10	161
2) Training & On-farm Demonstration Farm																	
a) Farm Preparation	3	lot	40	0	120	120									100	20	120
b) Motorcycle	2	unit	25	50	0	50		50									50
c) Office furniture/equipment	1	lot	25	0	25	25		25									25
				50	145	195		75							100	20	195
3) Carabao Dispersal																	
a) Carabao (female)	15	head	20	0	300	300								300			300
														300			300
4) Carabao Mini Breeding Station (BUII Camp)																	
a) Carabao (male)	1	head	40	0	40	40								40			40
b) Animal shed	50	sq.m	3.5	35	140	175		175									175
				35	180	215		175						40			215
5) Poultry																	
a) Poultry incubator (kerosene type)	1	unit	80	0	80	80		80									80
				0	80	80		80									80
Sub-Total of 1.1				139	812	951		481						340	100	30	951
1.2 Agricultural Infrastructure Development																	
1) Irrigation Development																	
a) Small warer impounding dam	1	place	2,000	688	1,312	2,000				2,000							2,000
b) Irrigation canal (delivery & distribution)	1,200	l.m	0.45	108	432	540				540							540
c) Other related structures	1	lot	-	80	174	254				254							254
				876	1,918	2,794				2,794							2,794
2) Drainage Development																	
a) Drainage canal	650	l.m	0.2	26	104	130				130							130
b) Drainage culvert (RC ⌀ 300mm)	5	place	4	4	16	20				20							20
c) Other related structures	1	lot	-	3	12	15				15							15
				33	132	165				165							165
3) Farm Roads Development																	
a) New construction (gravel surface)	7.25	km	1,163	3,373	5,059	8,432							8,432				8,432
b) -do- (concrete surface)	1.4	km	2,459	2,066	1,377	3,443							3,443				3,443
c) Creek crossing (spillway type, RC ⌀ 300mm*5, L=25m)	4	place	254	406	610	1,016							1,016				1,016
d) Culvert (RC ⌀ 300mm * 1)	5	place	4	5	19	24							24				24
				5,850	7,065	12,915							12,915				12,915
Sub-total of 1.2				6,759	9,115	15,874				2,959			12,915				15,874
1.3 Rural Infrastructure Development																	
1) Rural Roads Development																	
a) Improvement (Provincial road with gravel surface)	0.3	km	1,278	153	230	383			383								383
b) Improvement (Barangay road with gravel surface)	1.6	km	984	630	945	1,575			1,575								1,575
c) Upgrading (Barangay road with concrete surface)	1.9	km	2,899	3,305	2,203	5,508			5,508								5,508
d) Creek crossing (spillway type, RC ⌀ 300mm*5, L=25m)	2	place	254	203	305	508			508								508
e) -do- (spillway type, RC ⌀ 300mm*1, L=10m)	6	place	97	233	349	582			582								582
f) Culvert (RC ⌀ 300mm)	4	place	4	3	13	16			16								16
g) Public transport vehicle	1	lot	300	240	60	300							300				300
				4,767	4,105	8,872			8,572				300				8,872
2) Other Social Infrastructure Development																	
a) Const. of additional classroom/bldg. (2)	1	lot	360	108	252	360			360								360
b) Paramedical supplies/equipment/facilities	1	lot	100	30	70	100						100					100
				138	322	460			360			100					460
3) Strengthening Motorpool for O/M Works																	
a) Supply of O/M equipment to Municipal Gov.	1	lot	15,000	15,000	0	15,000							15,000				15,000
				15,000	0	15,000							15,000				15,000
Sub-total of 1.3				19,905	4,427	24,332			8,932			100	15,300				24,332
1.4 Post-Harvest Development																	
1) Agricultural Machinery																	
a) Tractor	1	unit	1,433.3	1,433	0	1,433		1,433									1,433
b) Hand tractor	2	unit	34.3	21	48	69		69									69
c) Sprayer	12	unit	2.9	35	0	35		35									35
d) Animal drawn plot	3	unit	1.2	1	3	4		4									4
e) Comb-tooth harrow	3	unit	1.0	1	2	3		3									3
				1,491	53	1,544		1,544									1,544
2) Post-Harvest & Agro-Industry Facilities																	
a) Multi-purpose dryer	2	place	395.5	237	554	791					791						791
b) Mechnical dryer	1	unit	106.0	32	74	106					106						106
c) Reaper	2	unit	90.0	54	126	180					180						180
d) Rice thresher (foot type)	3	unit	1.9	2	4	6					6						6
e) Rice thresher (engin type)	1	unit	48.5	15	34	49					49						49
f) Winnower	3	unit	2.0	2	4	6					6						6
g) Warehouse	2	unit	659.0	395	923	1,318					1,318						1,318
h) Rice agro-industry center	1	unit	863.5	259	604	864					864						864
i) Corn sheller (handy type)	6	unit	12.5	23	53	75					75						75
j) Corn agro-industry center	1	place	934.0	280	654	934					934						934
				1,298	3,029	4,328					4,328						4,328
Sub-total of 1.4				2,789	3,082	5,872		1,544			4,328						5,872
1.5 Institutional Development																	
1) Community Development Program																	
a) Pick-up	1	unit	390	390	0	390							390				390
b) Motorbike	1	"	80	80	0	80							80				80
c) Office furniture/equipment	1	lot	200	0	200	200							200				200
				470	200	670							670				670
Sub-total of 1.5				470	200	670							670				670
Total of Cocaville ARC				30,052	17,636	47,699		2,025	8,932	2,959	4,328	100	28,885	340	100	30	47,699
2. Community Development & Support Services																	
2.1 Agricultural Support services	LS				2,047	2,047		2,047									2,047
2.2 Institutional Development	LS				1,795	1,795	898			897							1,795
Total					3,842	3,842	898	2,047		897							3,842
3. Associated Cost																	
3.1 Pre-engineering Cost (5 % of 1)	LS			1,503	882	2,385		347	1,531	507							2,385
3.2 Administration Cost (10 % of 1+2)	LS			3,006	2,148	5,154	90	407	893	386	433	10	2,889	34	10	3	5,154
3.3 Consulting Services (refer to Table N.2-13)	LS			2,799	4,305	7,104	7,104										7,104
Total				7,308	7,335	14,643	7,194	754	2,424	893	433	10	2,889	34	10	3	14643
4. Land Acquisition	LS				1,016	1,016	1,016										1,016
5. Physical contingency (10 % of 1+2)				3,006	2,148	5,154	90	407	893	386	433	10	2,889	34	10	3	5,154
Grand-Total				40,375	31,978	72,353	9,198	5,233	12,249	5,134	5,194	120	34,662	408	120	36	72,353

Table N.2-16 Breakdown of Project Costs for Marangog ARC (Region-VIII)

(₱'000)

Description	Qty	Unit	Unit Rate	Amount F/C	Amount L/C	Amount Total	Implementing Agencies ODA DAR	ODA DA	ODA DPWH	ODA NIA	ODA DTI	ODA DOH	ODA LGU	PCC	LGU	ARC	Total
1. Construction Cost																	
1.1 Agricultural Development																	
1) Nursery																	
a) Land preparation for seed and seeding bed	500	sq.m	0.02	0	10	10										10	10
b) Compost house	20	sq.m	2	8	32	40		40									40
c) Office and warehouse	9	sq.m	3.5	6	25	32		32									32
d) Machinery and tools	1	lot	80	40	40	80		80									80
				54	107	162		152								10	162
2) Training & On-farm Demonstration Farm																	
a) Farm Preparation	3	ha	40	0	120	120									100	20	120
b) Motorcycle	2	unit	25	50	0	50		50									50
d) Office furniture/equipment	1	lot	25	0	25	25		25									25
				50	145	195		75							100	20	195
3) Carabao Dispersal																	
a) Carabao (female)	15	head	20	0	300	300								300			300
														300			300
4) Carabao Mini Breeding Station (Bull Camp)																	
a) Carabao (male)	1	head	40	0	40	40								40			40
b) Animal shed	50	sq.m	3.5	35	140	175		175									175
				35	180	215		175						40			215
5) Poultry Incubator																	
a) Poultry incubator (kerosene type)	1	unit	80	0	80	80		80									80
				0	80	80		80									80
Sub-Total of 1.1				139	812	951		481						340	100	30	951
1.2 Agricultural Infrastructure Development																	
1) Irrigation Development																	
a) River intake	2	place	200	120	280	400				400							400
b) Concrete water tank (2.0m * 2.0m * 2.0m)	13	l.m	44	195	377	572				572							572
c) Pipeline (PE pipe ø 100mm) w/ fittings	2,650	lot	0.88	2,508	0	2,508				2,508							2,508
d) -do- (PE pipe ø 75mm) w/ fittings	950	place	0.59	561	0	561				561							561
e) -do- (PE pipe ø 50mm) w/ fittings	990	l.m	0	287	0	287				287							287
f) -do- (PE pipe ø 38mm) w/ fittings	1,680	l.m	0	302	0	302				302							302
g) Excavation and pipe installation	1	lot	-	0	1,829	1,829				1,829							1,829
h) Pipeline river crossing	2	place	200	120	280	400				400							400
				4,093	2,766	6,859				6,859							6,859
2) Farm Roads Development																	
a) New construction (gravel surface)	1.95	km	1,163	907	1,361	2,268							2,268				2,268
b) -do- (concrete surface)	1.25	km	2,459	1,844	1,230	3,074							3,074				3,074
c) Creek crossing (spillway type, RC ø 300mm*5, L=25m)	4		254	406	610	1,016							1,016				1,016
d) Culvert (RC ø 300)	10	place	4	8	32	40							40				40
				3,165	3,233	6,398							6,398				6,398
Sub-total of 1.2				7,258	5,999	13,257				6,859			6,398				13,257
1.3 Rural Infrastructure Development																	
1) Rural Roads Development																	
a) Improvement (Barangay road with gravel surface)	7.9	km	984	3,109	4,664	7,773			7,773								7,773
b) Upgrading (Barangay road with concrete surface)	1.7	km	2,899	2,957	1,971	4,928			4,928								4,928
c) River crossing (spillway type, RC ø 600mm*30, L=100m)	1	place	1,910	764	1,146	1,910			1,910								1,910
d) -do- (spillway type, RC ø 600mm*35, L=200m)	1	place	2,630	1,052	1,578	2,630			2,630								2,630
d) Culvert (RC ø 300)	10	place	4	8	32	40			40								40
e) Public transport vehicle	1	lot	300	240	60	300							300				300
				8,130	9,451	17,581			17,281				300				17,581
2) Rural Water Supply Development																	
a) Rehabilitation of spring box (level-II)	1	place	130	0	130	130			130								130
b) Supply pipeline (GI pipe, ø 63mm) w/ fittings	30	l.m	0.35	11	0	11			11								11
c) -do- (GI pipe, ø 50mm) w/ fittings	410	l.m	0.30	123	0	123			123								123
d) -do- (GI pipe, ø 38mm) w/ fittings	1,570	l.m	0.19	298	0	298			298								298
e) -do- (GI pipe, ø 25mm) w/ fittings	2,420	l.m	0.13	315	0	315			315								315
f) -do- (GI pipe, ø 19mm) w/ fittings	160	l.m	0.08	13	0	13			13								13
g) Excavation and pipe installation	1	lot	-	0	380	380			380								380
h) Water tank (V=3.6 cu.m)	2	place	44	30	58	88			88								88
i) Water quality analysis	1	lot	2	0	2	2			2								2
j) Communal faucet (ø 13mm * 2 faucets)	13	place	7	91	0	91			91								91
				881	570	1,451			1,451								1,451
3) Other Social Infrastructure Development																	
a) Construction of barangay health center	1	lot	180	54	126	180						180					180
b) Paramedical supplies/equipment/facilities	1	lot	100	30	70	100						100					100
c) Expansion of barangay hall to multi-purpose center	1	lot	150	45	105	150							150				150
				129	301	430						280	150				430
4) Strengthening Motorpool for O/M Works																	
a) Supply of O/M equipment to Municipal Gov.	1	lot	15,000	15,000	0	15,000							15,000				15,000
													15,000				15,000
Sub-total of 1.3				24,140	10,322	34,462			18,732			280	15,450				34,462
1.4 Post-Harvest Development																	
1) Agricultural Machinery																	
a) Hand tractor	1	unit	34.3	10	24	34		34									34
b) Sprayer	5	unit	2.9	15	0	15		15									15
c) Animal drawn plow	3	unit	1.2	1	3	4		4									4
d) Comb-tooth harrow	3	unit	1.0	1	2	3		3									3
e) Animal drawn sledge	3	unit	0.5	0	1	2		2									2
				28	30	58		58									58
2) Post-Harvest & Agro-Industry Facilities																	
a) Multi-purpose dryer	2	place	395.5	237	554	791				791							791
b) Mechanical dryer	1	unit	106.0	32	74	106				106							106
c) Rice thresher (foot type)	1	unit	48.5	15	34	49				49							49
d) Warehouse w/ solar dryer	1	unit	659.0	198	461	659				659							659
e) Corn sheller (handy type)	2	unit	12.5	8	18	25				25							25
				489	1,141	1,630				1,630							1,630
Sub-total of 1.4				517	1,170	1,688		58		1,630							1,688
1.5 Institutional Development																	
1) Community Development Program																	
a) Pick-up	1	unit	390	390	0	390							390				390
b) Motorbike	1	"	80	80	0	80							80				80
c) Office furniture/equipment	1	lot	200	0	200	200							200				200
				470	200	670							670				670
Sub-total of 1.5				470	200	670							670				670
Total of Marangog ARC				32,524	18,504	51,028	0	539	18,732	6,859	1,630	280	22,518	340	100	30	51,028
2. Community Development & Support Services																	
2.1 Agricultural Support services	LS				2,047	2,047		2,047									2,047
2.2 Institutional Development	LS				1,795	1,795	898			897							1,795
Total					3,842	3,842	898	2,047		897							3,842
3. Associated Cost																	
3.1 Pre-engineering Cost (5 % of 1)	LS			1,626	925	2,551		53	1,829	670							2,551
3.2 Administration Cost (10 % of 1+2)	LS			3,252	2,235	5,487	90	259	1,873	776	163	28	2,252	34	10	3	5,487
3.3 Consulting Services (refer to Table N.2-13)	LS			2,799	4,305	7,104	7,104										7,104
Total				7,678	7,465	15,143	7,194	311	3,702	1,445	163	28	2,252	34	10	3	15,143
4. Land Acquisition	LS				366	366	366										366
					366	366	366										366
5. Physical contingency (10 % of 1+2)				3,252	2,235	5,487	90	259	1,873	776	163	28	2,252	34	10	3	5,487
Grand-Total				43,453	32,409	75,861	8,548	3,156	24,307	9,977	1,956	336	27,022	408	120	36	75,861

Table N.2-17 Breakdown of Project Cost for Silae ARC (Region - X)

(₱'000)

Description	Q'ty	Unit	Unit Rate	Amount F/C	Amount L/C	Amount Total	Implementing Agencies DAR	DA	DPWH	ODA NIA	DTI	DOH	LGU	PCC	LGU	ARC	Total
1. Construction Cost																	
1.1 Agricultural Development																	
1) Nursery																	
a) Land preparation for seed and seedling bed	500	sq.m	0.02	0	10	10										10	
b) Compost house	20	sq.m	2	8	32	40		40									
c) Office and warehouse	9	sq.m	3.5	6	25	31		31									
d) Machinery and tools	1	lot	80	40	40	80		80									
				54	107	161		151								10	151
2) Training & On-farm Demonstration Farm																	
a) Farm Preparation	3	ha	40	0	120	120									100	20	
c) Motorcycle	2	unit	25	50	0	50		50									
c) Office furniture/equipment	1	lot	25	0	25	25		25									
				50	145	195		75							100	20	195
3) Carabao Dispersal																	
a) Carabao (female)	15	head	20	0	300	300								300			300
														300			300
4) Carabao Mini Breeding Station (but Camp)																	
a) Carabao (male)	1	head	40	0	40	40								40			
b) Animal shed	50	sq.m	3.5	35	140	175		175									
				35	180	215		175						40			215
5) Poultry Incubator																	
a) Poultry incubator (kerosene type)	1	unit	80	0	80	80		80									
Sub-Total of 1.1				139	812	951		481						340	100	30	951
1.2 Agricultural Infrastructure Development																	
1) Irrigation Development																	
(Dalacutan area)																	
a) Creek intake	1	place	200	60	140	200				200							
b) Delivery canal	250	l.m	0.45	23	90	113				113							
c) Farm pond	1	lot	1,587	577	1,010	1,587				1,587							
d) Distribution canal	1,400	l.m	0.45	126	504	630				630							
e) Other related structures	1	lot	-	79	174	253				253							
(Silae area)																	
f) Creek intake	1	place	200	60	140	200				200							
g) Distribution canal	870	l.m	0.45	78	313	391				391							
h) Other related structures	1	lot	-	14	45	59				59							
				1,017	2,416	3,433				3,433							3,433
2) Drainage Development																	
a) Drainage canal	1,480	l.m	0.2	59	237	296				296							
b) Drainage culvert (RC ⌀ 300mm)	9	place	4	7	29	36				36							
c) Improvement of creek (small)	350	l.m	0.1	7	28	35				35							
d) Improvement of creek (large)	1,500	l.m	0.3	90	360	450				450							
e) Other related structures	1	lot	-	16	66	82				82							
				179	719	899				899							899
3) Farm Roads Development																	
a) New construction (gravel surface)	2.2	km	1,163	1,023	1,535	2,558							2,558				
b) -do- (concrete surface)	0.5	km	2,459	738	492	1,230							1,230				
c) creek crossing (spillway type, RC ⌀ 600mm*2, L=25m)	2	places	286	229	343	572							572				
d) -do- (spillway type, RC ⌀ 300mm*5, L=25m)	1	place	254	102	152	254							254				
e) -do- (spillway type, RC ⌀ 300mm*1, L=10m)	4	places	97	155	233	388							388				
f) Culvert (RC ⌀ 600mm)	2	places	8.8	4	14	18							18				
g) Culvert (RC ⌀ 300mm)	14	places	4	11	45	56							56				
				2,262	2,814	5,076							5,076				5,076
Sub-total of 1.2				3,458	5,949	9,408				4,332			5,076				9,408
1.3 Rural Infrastructure Development																	
1) Rural Roads Development																	
a) Public transport vehicle (Silae & Dalacutan)	2	lot	300	480	120	600							600				600
2) Rural Water Supply Development																	
a) Deep well with hand pump (level-1)	5	place	240	720	480	1,200			1,200								1,200
3) Rural Electrification																	
a) Electric power line construction (single phase)	3.5	lot	300	840	210	1,050							1,050				1,050
4) Other Social Infrastructure Development																	
(Silae area)																	
a) Paramedical supplies/equipment/facilities	1	lot	100	30	70	100					100						100
(Dalacutan area)																	
b) Construction of primary school/bldg. (4)	1	lot	720	216	504	720			720								720
c) Construction of barangay health center	1	lot	180	54	126	180					180						180
d) Paramedical supplies/equipment/facilities	1	lot	100	30	70	100					100						100
e) Construction of day care center	1	lot	180	54	126	180					180						180
f) Expansion of barangay hall to multi-purpose center	1	lot	150	45	105	150							150				150
				429	1,001	1,430			720		560		150				1,430
5) Strengthening Motor Pool for O/M Works																	
a) Supply of O/M equipment to Municipal Gov.	1	lot	15,000	15,000	0	15,000							15,000				15,000
Sub-total of 1.3				17,469	1,811	19,280			1,920		560		16,800				19,280
1.4 Post-Harvest Development																	
1) Agricultural Machinery																	
a) Hand tractor	1	unit	34.3	10	24	34		34									34
b) Sprayer	3	unit	2.9	9	0	9		9									9
c) Animal drawn plow	3	unit	1.2	1	3	4		4									4
d) Comb-tooth harrow	3	unit	1.0	1	2	3		3									3
e) animal drawn sledge	3	unit	0.5	0	1	1		1									1
				22	30	51		51									51
2) Post-Harvest & Agro-Industry Facilities																	
a) Multi-purpose dryer	1	place	395.5	119	277	396				396							396
b) Mechanical dryer	1	unit	106.0	32	74	106				106							106
c) Reaper	1	unit	90.0	27	63	90				90							90
d) Rice Thresher (engine type)	1	unit	45.8	14	32	46				46							46
e) Warehouse with solar dryer	1	unit	659.0	198	461	659				659							659
f) Corn agro-industry center	1	unit	934.0	280	654	934				934							934
				669	1,561	2,230				2,231							2,231
Sub-total of 1.4				691	1,591	2,282		51		2,231							2,282
1.5 Institutional Development																	
1) Community Development Program																	
a) Pick-up	1	unit	390	390	0	390							390				390
b) Motorbike	1	"	80	80	0	80							80				80
c) Office furniture/equipment	1	lot	200	0	200	200							200				200
				470	200	670							670				670
Sub-total of 1.5				470	200	670							670				670
Total of Silae ARC				22,227	10,363	32,591		532	1,920	4,332	2,231	560	22,546	340	100	30	32,591
2. Community Development & Support Services																	
2.1 Agricutural Support services	LS				2,047	2,047		2,047									2,047
2.2 Institutional Development	LS				1,795	1,795	898			897							1,795
Total					3,842	3,842	898	2,047		897							3,842
3. Associated Cost																	
3.1 Pre-engineering Cost (5 % of 1)	LS			1,111	518	1,630		128	461	1,041							1,630
3.2 Administration Cost (10 % of 1+2)	LS			2,223	1,421	3,643	90	258	192	523	223	56	2,255	34	10	3	3,643
3.3 Consulting Services (refer to Table N.2-13)	LS			2,799	4,305	7,104	7,104										7,194
Total				6,133	6,244	12,377	7,194	386	653	1,563	223	56	2,255	34	10	3	12,377
4. Land Acquisition	LS				498	498	498										498
5. Physical contingency (10 % of 1+2)				2,223	1,421	3,643	90	258	192	523	223	56	2,255	34	10	3	3,643
Grand-Total				30,581	22,376	52,951	8,680	3,223	2,765	7,315	2,677	672	27,055	408	120	36	52,951

Table N.2-18 Consulting Service Costs for Two Marginal Areas for Specified Implementing Agencies Concerned

Description	Quantity	Unit	Rate	Total Amount		Implementing Agencies								
				F/C	L/C	ODA	DAR	DA	DPWH	NIA	DTI	DENR	DOH	LGUs
			('000 P)	('000 P)	('000 P)									
1. Preparation Works (2 month)														
1.1 Foreign Currency														
Consultants Remuneration	2	month	750	1,500		1,500								
Out-of-Pocket Expenses														
International Travel Expenses	1	trip	42	42		42								
Reimbursable Cost Items and Others (10%)		LS		154		154								
Miscellaneous (10%)		LS		170		170								
Sub-Total				1,866		1,866								
1.2 Local Currency														
Consultants Remuneration	12	month	100		1,200		1,200							
Consultants Per Diem														
Foreign	2	month	115		230		230							
Local	12	month	80		960		960							
Living Allowance and Quarters														
Foreign	2	month	20		40		40							
Local	12	month	10		120		120							
Local Communication and Transportation		LS			291		291							
Printing of Report		LS			269		269							
Miscellaneous (10%)		LS			311		311							
Sub-Total					3,424		3,424							
2. Detailed Design and Construction Supervision (24 month)														
2.1 Foreign Currency														
Consultants Remuneration	4	month	750	3,000		3,000								
Out-of-Pocket Expenses														
International Travel Expenses	2	trip	42	84		84								
Reimbursable Cost Items and Others (10%)				308		308								
Miscellaneous (10%)				339		339								
Sub-Total				3,731		3,731								
2.2 Local Currency														
Consultants Remuneration	64	month	100		6,400	1,600	200	1,100	500	300	300	300	100	2,000
Consultants Per Diem														
Foreign	4	month	115		460	460								
Local	64	month	80		5,120	1,280	160	880	400	240	240	240	80	1,600
Living Allowance and Quarters														
Foreign	4	month	20		80	80								
Local	32	month	10		320	80	10	55	25	15	15	15	5	100
Local Communication and Transportation		LS			627	184.4	18.4	101.4	46.1	27.7	27.7	27.7	9.2	184.4
Printing of Report		LS			538		538							
Miscellaneous (10%)		LS			1,355	398.5	39.9	219.2	99.6	59.8	59.8	59.8	19.9	398.5
Sub-Total					14,900	4,082.9	966.3	2,355.6	1,070.2	642.4	642.4	642.4	214.1	4,282.9
3. Institutional Development and Support Services (42 month)														
3.1 Local Currency														
Consultants Remuneration (Local)	42	month	100		4,200									4,200
Consultants Per Diem (Local)	42	month	80		3,360									3,360
Living Allowance and Quarters (Local)	-	month	15		0									
Local Communication and Transportation		LS			1,008									1,008
Printing of Report		LS			941		941							
Miscellaneous (10%)					953		94							857
Sub-Total					10,460		1,035							9,425
Total				5,597	28,784	9,680	5,425	2,356	1,071	642	642	642	214	13,708

Note : Schedule of consulting services is given in Figure N.2-1.

Table N.2-19 Disbursement Schedule of The Project Cost for Sappaac ARC (Region-CAR)

(Unit: ₱'000)

Work/Cost Items	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	
A. Project Implementation Schedule							
1. Administration							
2. Land Acquisition							
3. Pre-Engineering Works							
4. Consulting Services							
5. Construction Works							
a) Agricultural Development							
b) Agri. Infrastructure Develop.							
c) Rural Infrastructure Develop.							
d) Post-Harvest Development							
e) Institutional Development							
6. Community Development & Support Services							
B. Project Cost							Total Cost
1. Administration Cost	820	815	815	815	815	815	4,895
2. Land Acquisition Cost	264	264	--	--	--	--	528
3. Pre-Engineering Works Cost	2,255	--	--	--	--	--	2,255
4. Consulting Services Cost	--	3,552	3,552	--	--	--	7,104
5. Construction Cost							
a) Agricultural Development	--	951	--	--	--	--	951
b) Agri. Infrastructure Develop.	--	3,894	7,790	--	--	--	11,684
c) Rural Infrastructure Develop.	--	9,724	19,449	--	--	--	29,173
d) Post-Harvest Development	--	--	2,626	--	--	--	2,626
e) Institutional Development	--	670	--	--	--	--	670
6. Community Development & Support Services Cost	--	--	961	961	960	960	3,842
7. Physical Contingency	--	1,527	3,080	96	96	96	4,895
Total	3,339	21,397	38,273	1,872	1,871	1,871	68,623

Table N.2-20 Disbursement Schedule of The Project Cost for Cofcaville ARC (Region-II)

(Unit: ₱'000)

Work/Cost Items	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	
A. Project Implementation Schedule							
1. Administration							
2. Land Acquisition							
3. Pre-Engineering Works							
4. Consulting Services							
5. Construction Works							
a) Agricultural Development							
b) Agri. Infrastructure Develop.							
c) Rural Infrastructure Develop.							
d) Post-Harvest Development							
e) Institutional Development							
6. Community Development & Support Services							
B. Project Cost							Total Cost
1. Administration Cost	854	860	860	860	860	860	5,154
2. Land Acquisition Cost	508	508	--	--	--	--	1,016
3. Pre-Engineering Works Cost	2,385	--	--	--	--	--	2,385
4. Consulting Services Cost	--	3,552	3,552	--	--	--	7,104
5. Construction Cost							
a) Agricultural Development	--	951	--	--	--	--	951
b) Agri. Infrastructure Develop.	--	5,291	10,582	--	--	--	15,873
c) Rural Infrastructure Develop.	--	8,110	16,222	--	--	--	24,332
d) Post-Harvest Development	--	--	5,872	--	--	--	5,872
e) Institutional Development	--	670	--	--	--	--	670
6. Community Development & Support Services Cost	--	--	961	961	960	960	3,842
7. Physical Contingency	--	1,503	3,363	96	96	96	5,154
Total	3,747	21,445	41,412	1,917	1,916	1,916	72,353

Table N.2-21 Disbursement Schedule of The Project Cost for Marangog-Leyte ARC (Region-VIII)

(Unit: ₱'000)

Work/Cost Items	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	
A. Project Implementation Schedule							
1. Administration							
2. Land Acquisition							
3. Pre-Engineering Works							
4. Consulting Services							
5. Construction Works							
a) Agricultural Development							
b) Agri. Infrastructure Develop.							
c) Rural Infrastructure Develop.							
d) Post-Harvest Development							
e) Institutional Development							
6. Community Development & Support Services							
B. Project Cost							Total Cost
1. Administration Cost	912	915	915	915	915	915	5,487
2. Land Acquisition Cost	183	183	--	--	--	--	366
3. Pre-Engineering Works Cost	2,551	--	--	--	--	--	2,551
4. Consulting Services Cost	--	3,552	3,552	--	--	--	7,104
5. Construction Cost							
a) Agricultural Development	--	951	--	--	--	--	951
b) Agri. Infrastructure Develop.	--	4,419	8,838	--	--	--	13,257
c) Rural Infrastructure Develop.	--	11,487	22,974	--	--	--	34,461
d) Post-Harvest Development	--	--	1,686	--	--	--	1,686
e) Institutional Development	--	670	--	--	--	--	670
6. Community Development & Support Services Cost	--	--	961	961	960	960	3,842
7. Physical Contingency	--	1,754	3,445	96	96	96	5,487
Total	3,646	23,931	42,371	1,972	1,971	1,971	75,862

Table N.2-22 Disbursement Schedule of The Project Cost for Silae ARC (Region-X)

(Unit: ₱'000)

Work/Cost Items	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	
A. Project Implementation Schedule							
1. Administration							
2. Land Acquisition							
3. Pre-Engineering Works							
4. Consulting Services							
5. Construction Works							
a) Agricultural Development							
b) Agri. Infrastructure Develop.							
c) Rural Infrastructure Develop.							
d) Post-Harvest Development							
e) Institutional Development							
6. Community Development & Support Services							
B. Project Cost							Total Cost
1. Administration Cost	607	607	607	607	607	607	3,642
2. Land Acquisition Cost	249	249	--	--	--	--	498
3. Pre-Engineering Works Cost	1,629	--	--	--	--	--	1,629
4. Consulting Services Cost	--	3,552	3,552	--	--	--	7,104
5. Construction Cost							
a) Agricultural Development	--	951	--	--	--	--	951
b) Agri. Infrastructure Develop.	--	3,135	6,272	--	--	--	9,407
c) Rural Infrastructure Develop.	--	6,426	12,854	--	--	--	19,280
d) Post-Harvest Development	--	--	2,284	--	--	--	2,284
e) Institutional Development	--	670	--	--	--	--	670
6. Community Development & Support Services Cost	--	--	961	961	960	960	3,842
7. Physical Contingency	--	1,118	2,236	96	96	96	3,642
Total	2,485	16,708	28,766	1,664	1,663	1,663	52,949

Table N.2-23 Summary of Construction and O & M Costs for Specified Implementing Agencies Concerned for Sappaac ARC

Description	DAR	DA	DPWH	NIA	DTI	DOH	PCC	LGU	ARC	TOTAL
1. Construction Costs (' 000 peso)										
a. Agricultural Development		481					340	100	30	951
b. Agricultural Infrastructure Development				5,933				5,750		11,683
c. Rural Infrastructure Development			13,393			300		15,480		29,173
d. Post-Harvest Development		33			2,593					2,626
e. Institutional Development								670		670
Total (A - E)		514	13,393	5,933	2,593	300	340	22,000	30	45,104
2. Operation and Maintenance Costs (peso)										
a. Agricultural Development		4,810					3,400	1,000	300	9,510
b. Agricultural Infrastructure Development				59,340				57,500		116,840
c. Rural Infrastructure Development			133,930			3,000		154,800		291,730
d. Post-Harvest Development		1,000			37,300					38,300
e. Institutional Development								6,700		6,700
Total (A - E)		5,810	133,930	59,340	37,300	3,000	3,400	220,000	300	463,080

Table N.2-24 Summary of Construction and O&M Costs for Specified Implementing Agencies for Cofcaville ARC

Description	DAR	DA	DPWH	NIA	DTI	DOH	PCC	LGU	ARC	TOTAL
1. Construction Costs (' 000 peso)										
a. Agricultural Development		481					340	100	30	951
b. Agricultural Infrastructure Development				2,959				12,915		15,874
c. Rural Infrastructure Development			8,932			100		15,300		24,332
d. Post-Harvest Development		1,544			4,328					5,872
e. Institutional Development								670		670
Total (A - E)		2,025	8,932	2,959	4,328	100	340	28,985	30	47,699
2. Operation and Maintenance Costs (peso)										
a. Agricultural Development		4,810					3,400	1,000	300	9,510
b. Agricultural Infrastructure Development				29,600				129,130		158,730
c. Rural Infrastructure Development			89,320			1,000		153,000		243,320
d. Post-Harvest Development		128,100			293,300					421,400
e. Institutional Development								6,700		6,700
Total (A - E)		132,910	89,320	29,600	293,300	1,000	3,400	289,830	300	839,660

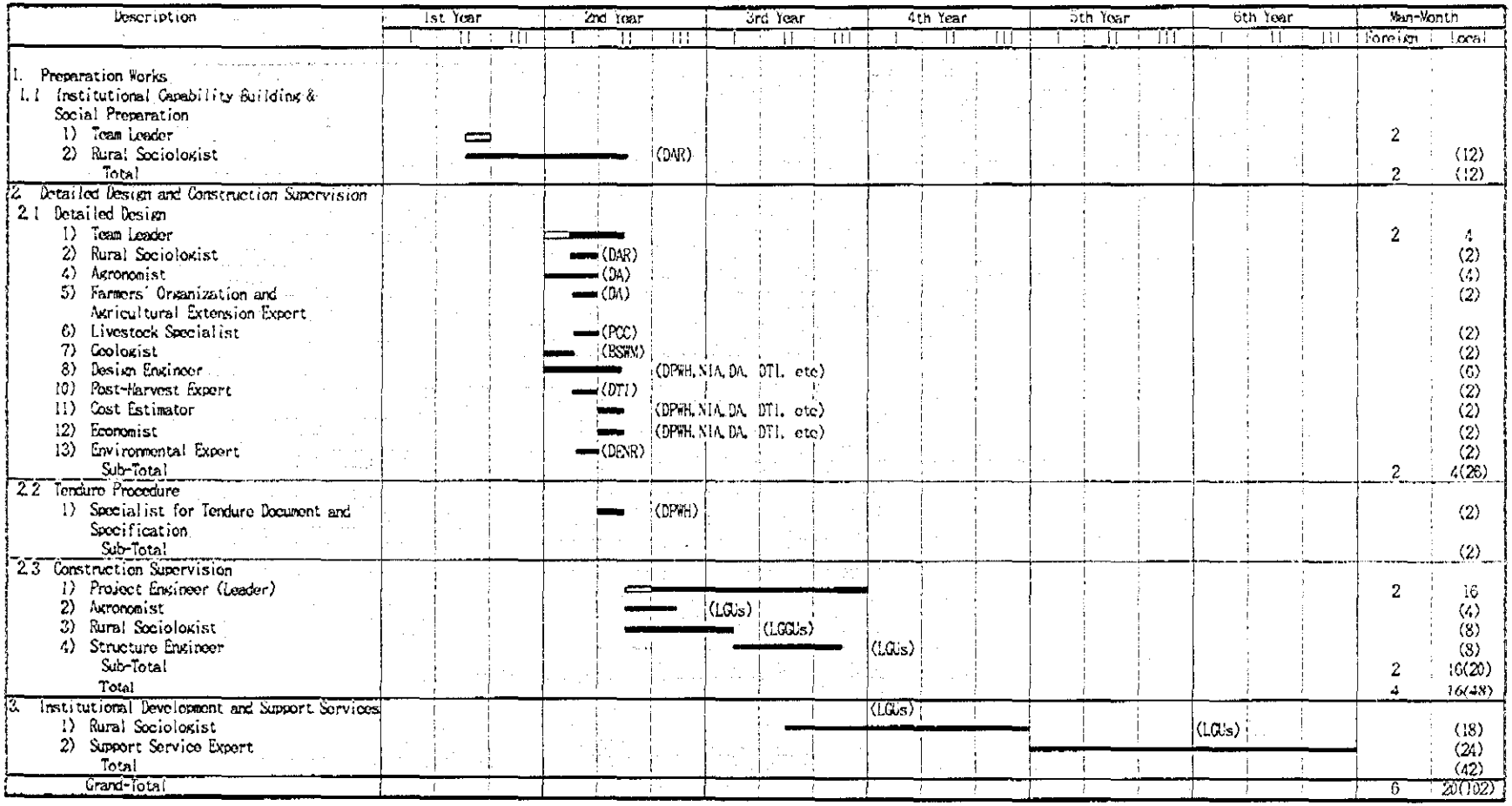
Table N.2-25 Summary of Construction and O & M Costs for Specified Implementing Agencies Concerned for Marangog ARC

Description	DAR	DA	DPWH	NIA	DTI	DOH	PCC	LGU	ARC	TOTAL
1. Construction Costs (' 000 peso)										
a. Agricultural Development		481					340	100	30	951
b. Agricultural Infrastructure Development				6,859				6,398		13,257
c. Rural Infrastructure Development			18,732			280		15,450		34,461
d. Post-Harvest Development		1,686								1,686
e. Institutional Development								670		670
Total (A - E)		2,167	18,732	6,859	-	280	340	22,618	30	51,025
2. Operation and Maintenance Costs (peso)										
a. Agricultural Development		4,810					3,400	1,000	300	9,510
b. Agricultural Infrastructure Development				68,600				63,970		132,570
c. Rural Infrastructure Development			187,310			2,800		154,500		344,610
d. Post-Harvest Development		17,800			13,300					31,100
e. Institutional Development								6,700		6,700
Total (A - E)		22,610	187,310	68,600	13,300	2,800	3,400	226,170	300	524,490

Table N.2-26 Summary of Construction and O & M Costs for Specified Implementing Agencies Concerned for Silae ARC

Description	DAR	DA	DPWH	NIA	DTI	DOH	PCC	LGU	ARC	TOTAL
1. Construction Costs										
a. Agricultural Development		481					340	100	30	951
b. Agricultural Infrastructure Development				4,332				5,076		9,408
c. Rural Infrastructure Development			1,920			560		16,800		19,280
d. Post-Harvest Development		51			2,231					2,282
e. Institutional Development								670		670
Total (A - E)		532	1,920	4,332	2,231	560	340	22,646	30	32,591
2. 'Operation and Maintenance Costs (peso)										
a. Agricultural Development		4,810					3,400	1,000	300	9,510
b. Agricultural Infrastructure Development				43,330				50,740		94,070
c. Rural Infrastructure Development			19,200			5,600		168,000		192,800
d. Post-Harvest Development		17,700			221,600					239,300
e. Institutional Development								6,700		6,700
Total (A - E)		22,510	19,200	43,330	221,600	5,600	3,400	226,440	300	542,380

FIGURE N.2-1 PROPOSED SCHEDULE FOR CONSULTING SERVICES



Note :

: Foreign Consultants

: Local Consultants

FIGURE N.2-2 PROPOSED ORGANIZATION CHART FOR PROJECT IMPLEMENTATION

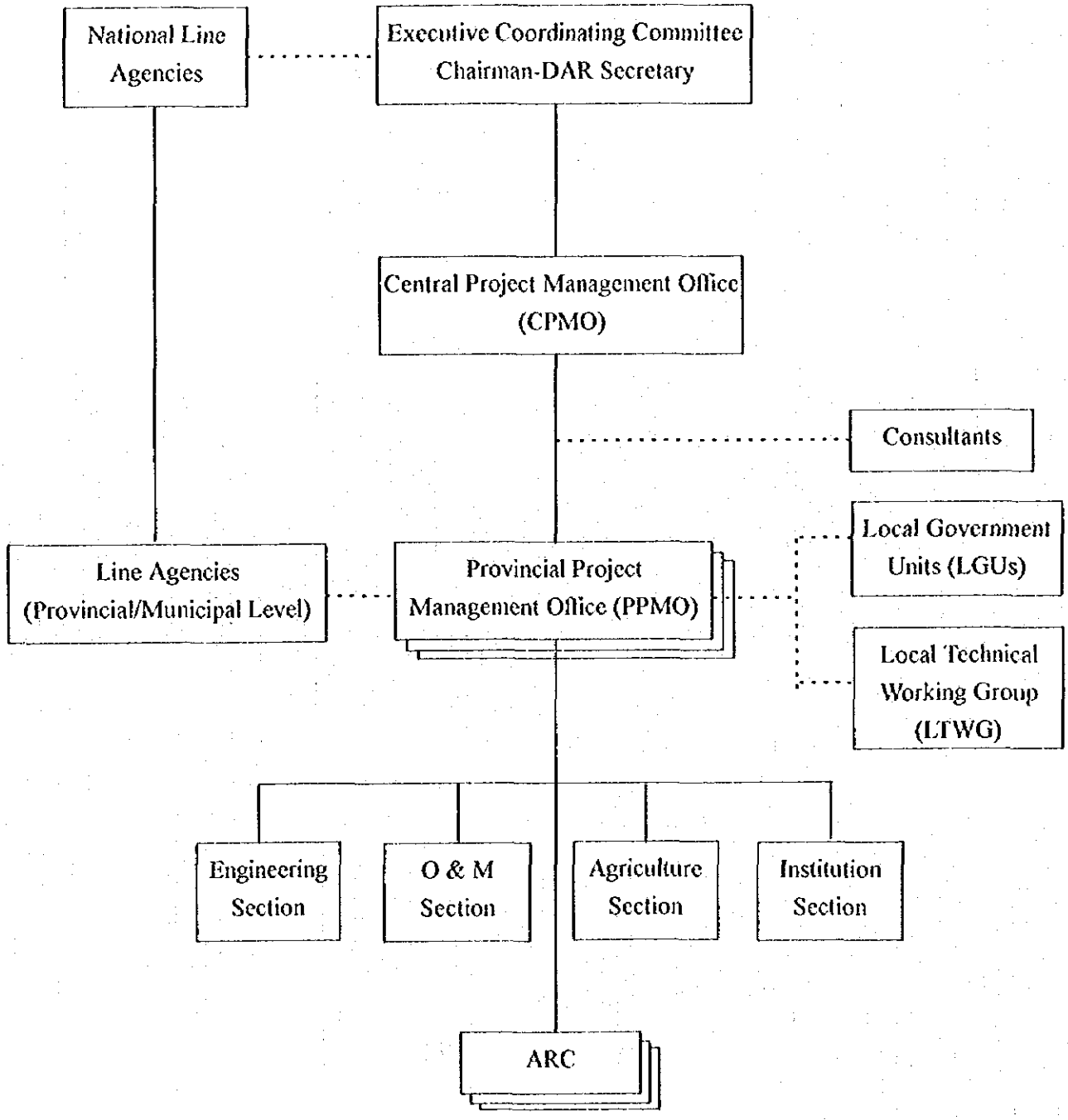


FIGURE N.2-3 ORGANIZATION CHART FOR O&M