Appendix B Current Infrastructure Development Projects

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							Immentation Collectule
	Location Length	Length	Outline	Project	Estimated		implementation series
Rond Section		(km)	Project	Status	Ö	Remarks	0002 00 80 20 90 2000
					(mil. Pesos)		0, 0, 0,
National Road Parto Princesa-Salvacion	Puerto	37.36	37.36 AC Pavement	F/S completed	60.28	60.28 Main road, facilitate transport of farm production	No.
	Princesa			(DEWII/PED)		to commercial center	
2 Salvacion-Langogan	Puerto	13.68 /	43,68 AC Pavement	F/S completed	81.82	81.82 Main road, sacilitate transport of farm production	A STATE OF THE STA
	Princesa			(DPWII/PEO)		to commercial center	
3 Lagogan-Roxas	P.P./Roxas	56.56 /	56.56 AC Pavement	F/S completed		92.56 Main road, facilitate transport of farm production	A COLUMN TO A COLU
G				(DPW17/PEO)		to commercial center	
4 Roxas-Itabiak	Roxas	26,75 Ciravel	Gravel	Completed	16.17	16.17 Agricultural/irrigation sites	
	-1-1-		Rehabilitation				
5 Itabiak-Abongan	Roxas	38.70 Gravel	Gravel	On-going	23.97	23.97 AgriculturaVirrigation sites	Series Control of the
			Rehabilitation				-
6 Taytay-El Nido	Taytay/	55.00	55.00 Gravel	F/S completed	60.85	60.85 Fishing/agriculture/tourism	
•	El Nido		Rehabilitation	Completed			
7 Coron-Busuanga	Coron/	78.00	78.00 Gravel	Rehabil;	56.31	56.31 Fishing/agriculture/tourism/irrigation	The second secon
,	Busuanga		Rehab./New Const. on-going	on-going			
Feeder Rond	Roxos/	24 00	24 (tt) Rehabilitation	Completed	5.08	5.08 Tourism/rural agricultural center	
	San Vicente						
9 Port Barton-Kennding	San Vicente	18.00	18.00 Reconstruction	Comitted	13.00	13.00 Fishing/agriculture/tourism	their Mar
				(Suspended)			
10 liangii-Layoc	Dumaran	2.40	2.40 Rehabilitation	Completed	5.37	5.37 Access road for two irrigation scheme	
11 Itangil-Latongay-Sta, Tereaitt Dumaran	Dumaran	29.00	29.00 Rehabilitation	Completed	14.20	14.20 Fishing/agriculture	Mary Service (Co.)
•	و مندخلم		Reconstruction			Transship point of Sta. Teresita for poblacion of	
	-abea					Dumaran by ship	
12 Jet. National road-Tumarbong Roxas	Roxas	15.00	15.00 Rehabilitation	On-going	4.13	4.13 Fishing/agriculture/handicrast	
			Reconstruction				

Master Plan of SPIADP/Central Government Plan manual Propert Project Implementation Details and Loan Convenants with ADB, PCSD (Alteady committed project)

	Location	digno.	Outline	Location Length Outline Project Estimated	Estimated	Remarks	Implementation Schedule	edule
Koad Section			3362		(mil, Pesos)		1994 95 96 97 98	8 99 2000
13 Tumarbong-Hiang-Sta. Teresit Roxas- Duman	Roxas- Dumaran	18,00	18,00 Rehabilitation/ New construction	On-going (Cy 1996)		(1.28 Access road for irrigation scheine fishing/agriculture Direct connection between Roxas and Dumaran		
14 Araceli-Dumaran*	Araceli/ Dumaran	36.00	36.00 Rehabilitation/ Reconstruction	Committed (Suspended)	17,43	17,43 Fishing/agriculture, Cashew production Connection between Dumaran and Araceli		
-ue	Taytay	40.00	40.00 Rehabilitation	Committed	24.46	24.46 Access road for imigation scheme Connection national road to Liminangeong port		
Busy Bees-Sandoval	Coron	30.00	30,00 Rehabilitation/	Committed	15.49	15.49 Access road for irrigation scheme		
			New construction	(Suspended)		Fishery/agriculture		
17 San Miguel-Pula-Proposed	Linapacan	15.00	15.00 New construction	F/S completed		83.00 Fishing/agriculture(cashew production) Depressed area proposed by Municipality		
						Government, however recently location of the airport was changed to 77??		
18 Malaking Patag-Halsey	Culion	13.00	13.00 New construction	Committed	10.00	10.00 Access road for irrigation scheme at Carigmalan		
19 Libertad-Paglaum Bato	Тауtау	6.00	6.00 Rehabilitation	Completed	5.15	5.15 Access road for irrigation site at Bato		
20 El Nido-Lamaro-New Ibajay- El Nido	ej Nido	29.00	59,00 Rehabilitation/ New construction	On-going	32.03	32.03 Access road for irrigation site at Taberna and Villa Libertad, Fishery/agriculture		
<u>.</u>	Roxas	34.30	34.30 Rehabilitation	On-going	19.26	19.26 Access road for irrigation site at Caruray proposed	Name of the last o	
San Fernndo-Lamara* San Vi 22 Jet. Coron-Busuanga National Coron	San Vucciite Coroii	15.00	New construction 15.00 Rehabilitation	Completed	5.86	by Municipanty, Prancry/agriculture 5.86 Access road to the airport		
Road-YKR Airport* 23 New Guinto-National Road	Taytay	10.00	10,00 Reconstruction	Committed	4.46	Tourism 4.46 Fishery	N N	
24 Bacungan-Nagtabon*	Perto	9.50	9.50 Rehabilitation	Completed	5.26	5.26 Fishery/agriculture/tourism		
Prince 25 Salvacion-Bahife-Macarascas Perto	Princesa Perto	22.00	22.00 Rehabilitation	Completed	2.81	2.81 Fishery/agriculture/tourism	J	
1	Trincesa	20 01		,	62.069			_

Master Plan of SPIADP/Central Government Plan Project Implementation Details and Loan Convenants with ADB, PCSD (Already committed project)

		2000			12								
		99	 S	_						,			
		98	 A STATE OF THE STA		of the state of	an in a	Color States and			7	S. Carrier	diament Shine	्रवृत्वे पुरस्क पान
		76				 		and the same	Mr. Lynnes	 .			B.
		shedule 96	 77.0				- 			···			
		Implementing Schedule			-			· · · · · ·					
		npleme	 _ 贝 _							:			
ılawan		Project Cost I: (1,000 Pesos)	46.6		38.9	1.0	1.0	1.5	2.5	2.0	2.5	3.0	3.0
Current Port Development Project in the Northern Palawan		Project Status	PPA/DPWH F/S Completed	Not yet committed	F/S Completed	Not yet committed	Not yet commited	Not yet committed	อีกเออ-ท0	Not yet committed	Not yet commited	Not yet commited	Not yet commited
nt Project in	Implementing	Agency	PPA/DPWH		DOTC	DOTC	DOTC	ротс	DOTC	DOTC	DOTC	DOTC	ротс
rt Developme		Outline of Project	Reconstruction	Reclamation	Upgrading	Improvement	Rehabilitation	Improvement	Rehabilitation Improvement	Improvement	Improvement	Rehabilitation Improvement	Improvement
Current Po		Location Classification	Terminal		Municipal	Municipal	Municipal	Municipal	Municipal	Municipal	Municipal	Municipal	Municipal
		Location	Coron		Тауเау	Araceli	Araceli	Linapacan Municipal	El Nido	Taytay	Taytay	Тауtау	Dumaran Municipal
		Name of Port	1 Coron port		2 Liminancong port	3 Araceli wharf	4 Bagong Sikat port	5 Linapacan port	6 El Nido port	7 Taytay port	8 Calauag port	9 Enibarkadero port	10 Дишатан рол

menting	-2010		131	
Imple	-2000			
Project	Cost (mil. peso)	11.0	10.0	
	Status	On-going (1996-1997)	On-going (1996)	On-going
	Implementing Agency	DOTC/ATO	ротс	Provincial government
	Outline of Project	 Rehabilitation of Terminal bldg, and Fire Station Expansion of Terminal bldg, including water system Construction of cargo terminal bldg, etc. 	- Concreating of runway	- New Construction 720m x 20m, Expansion proposed government
	Classification	Alt. Internationa	Feeder	Provincial
	Location	Puerto Princesa	Coron	Taytay
	Name of Port	Puerto Princesa	Busuanga	Sandval
		Location Classification Outline of Project Implementing Status Cost Agency (mil. peso)	Location Classification Outline of Project Implementing Status Cost Agency (mil. peso) -2 Project Cost Agency (mil. peso) -2 Puerto Princesa Alt. Internationa - Rehabilitation of Terminal bldg. - Expansion of Terminal bldg. - Expansion of Terminal bldg. - Construction of cargo - Costruction of Cargo - Expansion of Terminal bldg.	Emplementing Status Cost Agency (mil. peso) -2 DOTC/ATO On-going 11.0 B. DOTC On-going 10.0

DOTC Medium-term Development Program Proposed project by private firm

		Water Sundy Proje	eets for Level L& II (Rural Area) in the Northern Palawan	& II (Rura	I Area) in the	o Nort	hern P	alawa	c
Manna	Moone	Manue of Month Involution	Project Status	Project	Budget	Innlementation Schedule Priority	Cation Sc	hedule	Priority
Water Supply Served Activity	Served	ů.		Cost		2000	2005	2010	2010 Barangays
System	Barangays			(million Pesos)		-			
Buswanga	7.	New Construction (Level 1)	Proposed		DPWIISPIADP	0			Buluang, Calawig, Cheey, Old Busuanga
	<u>-</u>	14 New Construction (Level II)			DPWII/SPIADP	0	0	0	Sagrada, Salvacion, San Rafael, Concepcion
Coron	ļ~	1	Proposed		DPWINSPIADP	0			Buenavista, Decalachao, Turda
		5 New Construction (Level II)			DPWII/SPIADP	0	0	0	
Culion		New Construction (Level 1)	Proposed		agviasnimaaa	0		-	Buyot, Langkal, Balala, Garden
		2 New Construction (Level II)	-		DPWII/SPIADP	0	0	0	
Linapacan			Proposed		DPW11/SPIADP	0			Barabgonan, Decabaítot, New Cuiaylayan,
		5 New Construction (Level II)			DPWINSPIADP	0	0	0	Pical, San nicolas
Et Nido	-	15 New Construction (Level 1)	Proposed		DPWHZSPIADP	0			Bagong Bayan, Manlag, New Ibajay,
	<i>-</i> :	-	Committed (partially)		PPWINSPIADP	0	0	0	Sibaltan, Tenuguiban, Villa Libertad, Pasadena
Laytay	6	95 New Construction (Level 1)	Proposed		DPWINSPIADP	0			Bantulan, Bato, Busy Bees, Liminangeong,
	<u>-</u>	14 New Construction (Level 11)			DPWINSPIADP	0	0	0	Maytegued, New Guinio, Old Guinio,
San Vicente	<u></u>	1	Proposed		DPWII/SPIADP	0			Port Varton, New Agutaya
		2 New Construction (Level II)			DPWHASPIADP	0	0	0	
Rosens		New Construction (Level 1)	Proposed		DPWHZPIADP	0			Abaroan, Antonino, Takabang, Tagumpay
		3 New Construction (Level It)			DPWHISPIADP	0	0	0	Bagongbayan, Dumarao, Magara, San Miguel
Dumaran	₹	48 New Construction (Level I)	Proposed		DPWII/SPIADP	0			Danleg
		New Construction (Level 11)			DPWH/SPIADP	0	0	0	
Araceli		12 New Construction (Level 1)	Proposed		DPWH/SPIADP				Dalayaon, Sto. Nino.
		4 New Construction (Level II)			DPW1//SPIADP	0	0	0	Taloto, Tudela
Puerto Princesa	,	New Construction (Level 1)	Proposed		DPWH/City	0			Bagong Bayan, Concepcion, Irawan,
		6 New Construction (Level II)			DPW11/City	0	0	0	Manato, Inagawan, Tagburos

Note: . Targes of the uiban water supply are 69% and 93% of the total population by 1998 and 2010 respectively.

⁽Water supply, sewarage and sanitation development plan, 1994-2010, SMADP)

⁻ Rehabilitation of existing facilities for Level I & II in the Northern Palawan will be required as soon as possible

[·] Environmental Impact Analysis (EIA) will be required for the implementation.

Water	Water Supply Projects for Level III (Urban Area) In the Northern Palawan	rea) In the D	Vorthern Palawan	:	
Name of	Existing Problems	Project Status	Distance of water source	Project Cost Priority	Priority
Water Supply System			from Poblacion/City Proper	(million Peso)	
Level III for Urban Water			-		
Roxas Water Supply System	Water shortage areas during the dry season - Poblacion, New Barukan, Island barangays	Proposed	Water reservoir approx. 15 km		
Breed Princes Water Sunstu	Immediate Improvement program (IID) (or exciting	 19/8 implemented		280.6	
System System	deficiency and imporvement and expansion of				
	system				
	- a serious of wells in the Iwahig area (18 wells)		New wells		
	- pomping station and distribution system - 2002 of the target year		22 km		
	· · ·				
Coron Water System	Water shortage areas during the dry season - Poblacion, Island barangays	Proposed			
El Nido Water System	Water shortage areas during the dry season - Poblacion, Island barangays	F/S implemented	F/S implemented Water reservoir approx. 1.5 km	8.7	
+					
Taytay Water System	Water shortage areas during the dry season - Poblacion, Liminangong, Pancol, Batu,	Proposed			
	Ive				

Current Irrigation Development Projects in the Northern Palawan	tionDeve	lopment	Projects in	n the Nor	thera	Palawa	n n						
Name				Served Pr	Project.	Project		Ξ	Implementing Schedule	nting 5	Sched	음	
J 0	Location	Type	Implementing	Arca S	Status	Cost							peyond
Projects/Irrigation Systems			Agency	(ha)	<u> </u>	(1,000 P) I	19661	95 9	96 97	98		99 2000	2000
1 Cheey CtP	Busuanga	New	2	500 Proposed	pasc	88,725							
2 New Busuanga CIP	Busuanga	New	2	1200 Proposed	pase	212,940							
3 Sagrada CIP	Busuanga	New	2	420 Proposed	pose	74,529							
4 Buluang CIP	Busuanga	New	ឡ	150 Proposed	pscq	26,618							,
5 Sto Nino CIP	Busuanga	New	97	300 On-going	oing	53,235	<u>.</u>	_	Ĭ				
6 San Nicolas, Borae & Guadalupe CIPs	Coron	Zek	27	600 Proposed	pose	106,470							
7 Various CIPs (Barotuan, Manilag etc.)	El Nido	Zce	3	2800 Proposed	. pasc	496,860							
8 Taberna CIP	El Nido	No.8	√iz	200 Committed	mitted	35,490							
9 VillaLibertad	El Nido	New	SZ	200 F/S completed	ompleted	35,490]							
10 Abongan CIP	Taytay	Ze €	ទ	1000 Committed	mitted	177,450							to the my live
11 Cataban CIP	Taytay	≱oZ Z	LG/NIA	150 Committed	mitted	26,618			•				
12 Busy Bees CIP	Taytay	No.8	2	200 F/S completed	ompleted	35,490							
13 Alacalian CIP	Taytay	Zek	ວາ	150 Proposed	pscq	26,618							
14 Paglaom CIP	Taytay	New	2	400 Proposed	pose	70,980							,
15 Sandoval CIP	'Faytay	New	S	150 F/S completed	ompleted	26,618							
16 Kemdang CIP	San Vicente New	New	VIZ VIZ	100 On-going	Sing	17,745		1	_	1			
17 Maringit-ringit CIP	San Vicente New	New	SIZ.	100 F/S completed	ompleted	17,745				F			
18 Various CIPs (Port Barton)	San Vicente New	New	2	150 Proposed	pose	26,618							, N
19 Layok CIS	Dumaran	Rhab.	LG/NIA	172 On-going	oing	3,968		-					
20 Impatient CIS	Dumaran	Rhab.	LC/NIA	100 F/S completed	ompleted	2,307			H-	·			
21 Ilian I CIS	Dumaran	Rhab.	LG/NIA	150 On-going	Suio	3,461							
22 Ilian II CIS	Dumaran	Rhab.	LG/NIA	135 On-going	oing	3,114	4. 2.		-	-			
23 Sta. Teresita CIP	Dumaran	New	S	130 Proposed	osed	23,069							
24 SWIM (2 units, Sto Tomas)	Dumaran	New	ដ	200 Proposed	pseq	35,490							
25 SWIM (Poblacion)	Dumaran	New	97	60 Proposed	paso	10,647							
26 Various CIPs (Bgy, IV, Sandoval etc.)	Roxas	New/Rehab.	LG	n.a. Proposed	oscd	n.a.			_				
	Note 1:	Proposed:	proposed pre	proposed project by SPIADP		Note 2: F	Project costs are estimated based on the result of	osts ar	c estim	ated by	o pose	ո ւիշ ո	sult of
		F/S completed	F/S completed: High priority project by SPIADP	7 project by SF	\IADP	11.	F/S study of SPIADP.	7 of SP	IADP.				
		Committeed	Committee	Ommitted project by ADR	C								

Project Implementation Details and Loan Convenants with ADB, PCSD

Committed: Committed project by ADB

Master Plan of SPiADP

Structures and Facilities Under the Irrigation Component, NIA-SPIADP

Name of Project	Location	Potential Area (ha)	Accomplishment/Status
° Lamikan CIP	Quezon	400	2 100% completed, already turned-over to Irrigator's Association (IA).
° Quinlogan CIP	Quezon	250	o 100% completed, already turned-over to Irrigator's Association (IA).
° Tagbuaya CIP	Quezon	250	o 100% completed, already turned-over to o Irrigator's Association (IA).
° Marangas CIP	Bataraza	500	 100% completed, already turned-over to Irrigator's Association (IA).
° Iraan CIP	Rizal	300	The project is sustainability completed with a total accomplishment of 98.50%.
° Candawaga CIP	Rizal	400	The project is sustainability completed with a total accomplishment of 99.10%.
° Maasin CIP	Brooke's Point	1,000	The construction is on-going (23.75% completed).
° Sabsaban CIP	Brooke's Point	300	The construction is on-going (47.00% completed).
° Tamlang CIP	Brooke's Point	1,100	The construction is on-going (19.25% completed).
° Talakaigan CIP	Aborlan	54	The construction is on-going (80.00%completed).
° Pinamaratan CIP	Coron	60	• The construction is on-going (66.50% completed).
° San Nicolas CIP	Coron	80	The construction is on-going (55.00% completed).
° Sto. Nino CIP	Coron	60	The construction is on-going (57.75% completed).
° Busybees CIP	Taytay	120	 Feasibility Study completed, (may not be implemented due to funding shortfall).
° Cataban CIP	Taytay	150	• Feasibility Study completed (not feasible).
° Taberna CIP	El Nido	200	 Feasibility Study completed, (may not be implemented due to funding shortfall).
° Layok CIS	Dumaran	172	 Feasibility Study completed, (may not be implemented due to funding shortfall).
° Ilian I CIS	Dumaran	150	Feasibility Study completed (not feasible).
° Ilian II CIS	Dumaran	135	Feasibility Study completed (not feasible).
° Kamdeng CIP	San Vicente	100	 Feasibility Study completed, (may not be implemented due to funding shortfall).

CIS- COMMUNAL IRRIGATION SYSTEM (REHABILITATION)
CIP - COMMUNAL IRRIGATION PROJECT (NEW)

Fifteen (15) Irrigator's Service Association (ISA) were organized and registered with the Securities and Exchange Communication (SEC).

Structures and Facilities Under the Integrated Health Program Component, DOH-SPIADP

1. A 2. S 3. Is 4. B 5. A 5. A 6. S 6. M 6. B 9. K 7. B 6. M 7. B 7	Barangay Health Station Aporawan BHS Sagpangan BHS Saub BHS Sauriao BHS Malinao BHS Masin BHS Serong BHS Cantagbak BHS Cantagbak BHS Candawaga BHS Canipaan BHS	Aporawan, Aborlan Sapangan, Aborlan Isaub, Aborlan Burirao, Narra Sandoval, Narra Malina, Narra Masin, Quezon Berong, Quezon Kalatagbak, Quezon Panalingaan, Rizal Taburi, Rizal Candawaga, Rizal Bunog, Rizal Caniapan, Rizal Ransang, Rizal Maasin, Brooke's Point Mainit, Brooke's Point Oring-oring, Brooke's Point Pulot Shore, Espanola Punang, Espanola Panitian, Espanola Inogbong, Bataraza Marangas, Bataraza Tarusan, Bataraza	Operational -dodododododododo	Conduct Family Health Care Malaria Control Health Services Nutrition Program Anti-TB Program
2. S 15 15 16 17 18 19 11 11 12 11 12 11 12 11 12 12 13 14 15 16 17 18 19 19 19 19 19 19 19 19 19 19 19 19 19	Sagpangan BHS saub BHS Sauriao BHS Sandoval BHS Malinao BHS Maasin BHS Serong BHS Caltagbak BHS Panalingaan BHS Faburi BHS Candawaga BHS Sunog BHS Canipaan BHS Ransang BHS Masin BHS Mainit BHS Oring-oring BHS Pulot Shore BHS Panitian BHS Panitian BHS Marangas BHS Panitian BHS Panitian BHS Panitian BHS Panitian BHS Panitian BHS Panitian BHS Marangas BHS Marangas BHS Farusan BHS Marangas BHS Farusan BHS Malihud BHS	Isaub, Aborlan Burirao, Narra Sandoval, Narra Malina, Narra Maasin, Quezon Berong, Quezon Kalatagbak, Quezon Panalingaan, Rizal Taburi, Rizal Candawaga, Rizal Bunog, Rizal Caniapan, Rizal Ransang, Rizal Maasin, Brooke's Point Mainit, Brooke's Point Oring-oring, Brooke's Point Pulot Shore, Espanola Punang, Espanola Panitian, Espanola Inogbong, Bataraza Marangas, Bataraza	-dodododododododo-	Malaria Control Health Services Nutrition Program
14. B S M M S S M M S S M M S S M M S S M M S M S M M S M M M M S M	Burirao BHS Sandoval BHS Malinao BHS Maasin BHS Berong BHS Caltagbak BHS Panalingaan BHS Candawaga BHS Bunog BHS Canipaan BHS Canipaan BHS Mainit BHS Dring-oring BHS Pulol Shore BHS Punang BHS Panitian BHS Panitian BHS Panitian BHS Marangas BHS	Burirao, Narra Sandoval, Narra Malina, Narra Malina, Narra Massin, Quezon Berong, Quezon Ralatagbak, Quezon Panalingaan, Rizal Taburi, Rizal Candawaga, Rizal Bunog, Rizal Bunog, Rizal Ransang, Rizal Massin, Brooke's Point Mainit, Brooke's Point Oring-oring, Brooke's Point Pulot Shore, Espanola Punang, Espanola Panitian, Espanola Inogbong, Bataraza Marangas, Bataraza	-dodododododododo-	Health Services Nutrition Program
5. S. M. M. S.	Sandoval BHS Malinao BHS Maasin BHS Berong BHS Caitagbak BHS Panalingaan BHS Faburi BHS Candawaga BHS Bunog BHS Canipaan BHS Ransang BHS Maasin BHS Mainit BHS Oring-oring BHS Pulot Shore BHS Panaig BHS Panitian BHS Panitian BHS Nogbong BHS Marangas BHS Marangas BHS Marangas BHS Marangas BHS Marangas BHS Marangas BHS Malihud BHS	Sandoval, Narra Malina, Narra Malina, Narra Maasin, Quezon Berong, Quezon Kalatagbak, Quezon Panalingaan, Rizal Taburi, Rizal Candawaga, Rizal Bunog, Rizal Caniapan, Rizal Ransang, Rizal Maasin, Brooke's Point Mainit, Brooke's Point Oring-oring, Brooke's Point Pulot Shore, Espanola Punang, Espanola Panitian, Espanola Inogbong, Bataraza Marangas, Bataraza	-dodododododododo-	Health Services Nutrition Program
6. M 7. M 8. S 9. K 10. P 11. T 12. C 13. C 14. C 15. M 14. C 15. M 19. P 20. P 22. M 19. C 24. M 25. M 26. M 27. M 28. M 29. M 29. M 29. M 29. M 20.	Malinao BHS Maasin BHS Berong BHS Caitagbak BHS Panalingaan BHS Faburi BHS Candawaga BHS Bunog BHS Canipaan BHS Masin BHS Mainit BHS Oring-oring BHS Pulot Shore BHS Punang BHS Panaitan BHS nogbong BHS Marangas BHS Malihud BHS	Malina, Narra Maasin, Quezon Berong, Quezon Kalatagbak, Quezon Panalingaan, Rizal Taburi, Rizal Candawaga, Rizal Bunog, Rizal Caniapan, Rizal Ransang, Rizal Maasin, Brooke's Point Mainit, Brooke's Point Oring-oring, Brooke's Point Pulot Shore, Espanola Punang, Espanola Panitian, Espanola Inogbong, Bataraza Marangas, Bataraza	-dodododododododo-	Nutrition Program
7. M. B. B. S.	Maasin BHS Berong BHS Kaltagbak BHS Panalingaan BHS Faburi BHS Candawaga BHS Bunog BHS Canipaan BHS Ransang BHS Mainit BHS Oring-oring BHS Pulot Shore BHS Punang BHS Panitian BHS nogbong BHS Marangas BHS Marangas BHS Marangas BHS Farusan BHS Marangas BHS Farusan BHS Malihud BHS	Maasin, Quezon Berong, Quezon Kalatagbak, Quezon Panalingaan, Rizal Taburi, Rizal Candawaga, Rizal Bunog, Rizal Caniapan, Rizal Ransang, Rizal Maasin, Brooke's Point Mainit, Brooke's Point Oring-oring, Brooke's Point Pulot Shore, Espanola Punang, Espanola Panitian, Espanola Inogbong, Bataraza Marangas, Bataraza	-dodododododododo-	
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	ubid BHS	Luid, Cuyo	completed	
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1. Introduction

This supplemental survey on the social environment of Northern Palawan focused on the perceptions of indigenous communities on development, especially through an environmentally sustainable tourism development.

1.1 Objectives

In general, this survey aims to determine the following:

- (a) the approximate distribution of indigenous cultural communities (ICCs), e.g. Bataks and Tagbanuas, in Northern Palawan;
- (b) the social acceptability of government-initiated development projects, specifically, tourism development, in the community among leaders in Northern Palawan; and
- (c) the respondents' attitude towards indigenous cultural communities and their role in the development and the preservation of the environment in Northern Palawan.

Specifically, the survey will determine the present distribution pattern of indigenous cultural communities where "Ancestral Domain Claims" are anticipated, and to find out the respondents' views or perception on the following:

- (b) concept of development in relation to the environment and the indigenous communities:
- (c) modes of natural resources utilization and their attitude towards the environment:
- (d) level of knowledge of tourism in relation to the environment and the indigenous communities in Northern Palawan;
- (e) environmentally sustainable tourism;
- (f) possibility of involving indigenous communities in the development of tourism in Northern Palawan;
- (g) personal involvement in community development;
- (h) level of commitment to cooperate with government efforts toward community development;
- (i) how to balance development and environmental preservation; and
- (j) awareness of indigenous people in their community.

1.2 Methodology

Only five municipalities were surveyed owing to limitations of time and cost. These were the municipalities of Taytay, El Nido, San Vicente, Roxas, and Puerto Princesa City.

The survey was conducted by PANLIPI (Tanggapang Panligal ng Katutubong Pilipino), which means Legal Assistance Center for Indigenous Filipinos, a non-governmental organization. Two sets of questionnaires were used, one in English and the other in Filipino (refer to Annex B-1 and Annex B-2). Fifty-nine barangays in five municipalities were visited. These sites were selected for their known indigenous communities and considering the time frame for the survey. The areas especially requested by the JICA Study Team to be reached were those inhabited by the Tandulanen and Silanganen groups, which are sub-groups of the Tagbanua community.

The respondents of this survey were barangay (community) chairmen and tribal leaders, numbering 105 in total. The surveyors actually visited them in their communities by the surveyors, several of which were accessible only by foot, and given the set of questionnaires to answer. Afterwhich, the questionnaires were collated, organized and the results tabulated.

The rich natural resources and pristine environment in Northern Palawan have been found to be more useful for tourism rather than extractive development activities. Therefore, tourism as a form of development, with the ultimate purpose of improving the quality of life of the local population, at the same time enriching the experience of people from other places, may be socially acceptable to the people in Northern Palawan.

1.3 Limitations of the Survey

The survey was very basic in nature. Time constraint prevented a deeper analyses on the livelihood income of indigenous peoples (IPs). Such information as the livelihood and income data require time and academic studies, such as daily record keeping.

The customs and traditional cultures of the IPs were also not well considered since these information also require a longer length of time spent with the tribes. However, secondary data available on the established tribes of Bataks and Tagbanuas seemed to be no longer adaptable to the present indigenous groups as they are in the process of change. Elder generations hope to re-acquire their traditional way of life but the younger generation are more flexible as they can adapt to new cultures. Inter-marriage between IPs and neighboring Christian Filipinos are already underway.

The archaeological spots identified and listed by the National Museum which served as basis in the selection of the survey sites were found either to be non-existent or already had names that are different from the local names of such

locations. Also, the respondents were unable to identify such spots. Hence, it was impossible to verify them on the base map.

2. Results of the Survey

The following are the tabulated answers to the questionnaire given. The total number of answers are more or less 105 due to plural answers to one question or lack of answer to a specific question.

2.1 Socioeconomic Characteristics

1) Tribal Communities and Ancestral Domain

Out of the 58 barangays, 57 have been identified to have indigenous groups. Of the 57 barangays, 12 have both Tagbanuas and Bataks, two have Bataks only, and the remaining 43 have Tagbanuas only. Barangays which have indigenous groups are shown in Table 2-2 and their distribution is indicated in Figure 2-1.

The approximate number of families of the indigenous groups was also asked, which is given in Table 2-1

Table 2-1 Approximate Number of Families of Indigenous Groups

	Tagb	anua	Ba	tak	To	otal
No. of Families	B.C.	T.L.	B.C.	T.L.	B.C.	T.L.
More or less 50	38	32	12	8	50	40
More or less 100	11	5	1	0	12	5
More or less 150	3	0	0	0	3	0
More or less 200	1	2	0	2	1	4
Total	53	39	13	10	66	49

Note: BC: Barangay Captain TL: Tribal Leader

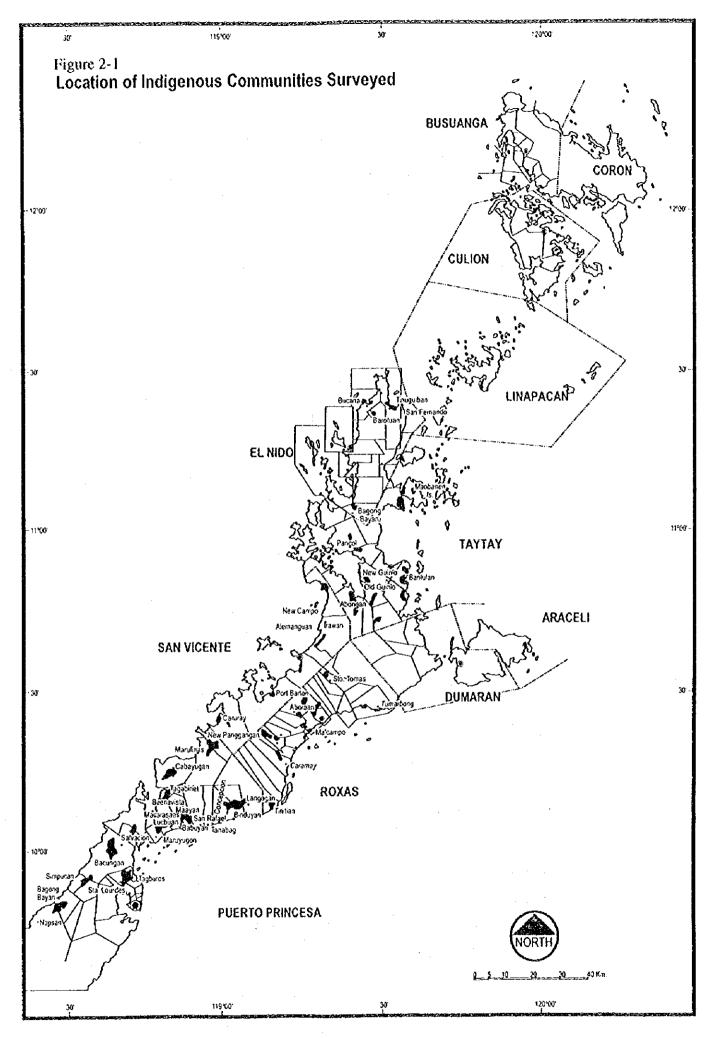
In most cases, the estimated size of indigenous communities is not so large, rarely exceeding 100 families. An interesting point is the tendency of barangay captains to estimate a larger family size than those of tribal leaders.

To the question if there is any Ancestral Domain claimed in the area where indigenous groups are distributed, 74% of barangay captains answered 'Yes' (16% answered 'No') while 88.1% of tribal leaders answered 'Yes' (only 7.1% answered No') in the case of the Tagbanua groups. In case of the Batak groups, 81.3% of Barangay Captains answered 'Yes' while it is a 100% for Tribal Leaders.

It may be noted that even if Tribal Leaders answered 'No,' it does not mean that they have given up the claiming of Ancestral Domain. All it means is that the indigenous groups have either already claimed or under preparation of claiming their Ancestral Domain.

Table 2-2 Indigenous Groups in the Survey Area

Abongan Panantolon Pancol Bantulan Baras Banbanan New Guinlo Old Guinto Liminangcong Bato	Tagbanua
Abongan Panantolon Pancol Bantulan Baras Banbanan New Guinlo Old Guinlo Liminangcong Bato	Tagbanua
Panantolon Pancol Bantulan Baras Banbanan New Guinlo Old Guinlo Liminangcong Bato	Tagbanua
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Baras Banbanan New Guinlo Old Guinlo Liminangcong Bato	Tagbanua Tagbanua Tagbanua Tagbanua Tagbanua Tagbanua
Baras Banbanan New Guinlo Old Guinlo Liminangcong Bato	Tagbanua Tagbanua Tagbanua Tagbanua Tagbanua Tagbanua
New Guinlo Old Guinlo Liminangcong Bato	Tagbanua Tagbanua Tagbanua Tagbanua
Old Guinlo Liminangcong Bato	Tagbanua Tagbanua Tagbanua
Old Guinto Liminangcong Bato	Tagbanua Tagbanua Tagbanua
Bato	Tagbanua
	Tagbanua
Silanga	Tagbanua
	Tagbanua
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	Tagbanua and Batak
	Tagbanua
• • • • • • • • • • • • • • • • • • •	Tagbanua
	Tagbanua
Concepcion	Tagbanua and Batak
Manalo	Tagbanua and Batak
Babuyan	Tagbanua
	Tagbanua
Salvacion	Tagbanua
	Tagbanua
, , , , , , , , , , , , , , , , , , ,	Tagbanua
	Tagbanua and Batak
	Batak
	Tagbanua and Batak
	Tagbanua and Batak
· · ·	Tagbanua and Batak



2) Livelihood and Income

The major source of income of indigenous groups are shown in Table 2-3. Honey, rattan, and Almaciga resin gathering, which are non-timber forest products, topped the answers, especially from the tribal point of view. On the other hand, the guess of barangay captains is that fishing is not a major source of income among the Tagbanuas but it is among the Bataks. Overall, handicraft making is not so popular yet. Farming is mainly done "kaingin style" and as the method is prohibited now, productivity is very low, and therefore, it becomes a poor source of income. Other sources of income include land rental, gold panning, shellcraft, lumber gathering, and land clearing.

Table 2-3 Major Sources of Income of Indigenous Groups

	Tagt	anua	Ba	tak	Al	Responde	ents
Source of Income	B.C.	T.L.	B.C.	T.L.	B.C.	T.L.	Total
Honey gathering	58.9	83.3	100.0	100.0	67.7	86.8	76.3
Rattan gathering	58.9	76.2	64.3	81.8	60.0	77.4	67.8
Almaciga resin	29.4	40.5	64.3	81.8	36.9	77.4	42.4
gathering							
Fishing	60.8	28.6	7.1	36.4	49.2	30.2	40.7
Handicrafts	33.3	14.3	28.6	27.3	32.3	17.0	25.4
Farming	37.3	26.2	21.4	18.2	33.8	24.5	29.7

Note: Figures are percentages to total answers.

As the non-timber products are the major source of income for the indigenous communities, the sustainability of these resources must be studied and planned if those indigenous communities are to be preserved. Also, alternative means of income such as handicrafts for souvenirs utilizing renewable forest and marine (riverine) products, improvement of cultivation system, etc., must be promoted.

The above statement is especially important as annual incomes of indigenous communities are very low, between P1,000 and P5,000 (US\$40 to 200), as shown below:

Table 2-4 Income Level of Indigenous Communities

Income Range	Barangay Captains	Tribal Leaders	All Respondents
Less than P1,000	16.0	8.2	12.5
P1,000 - P5,000	28.2	67.3	50.0
P5,001 - P10,000	33.3	24.5	28.4
More than P10,000	21.5	. A service of the se	9.1
Total	100.0	100.0	100.0

2.2 Perception on Development

2.2.1 Indications of Development in the Community

1) Infrastructure Projects

When the barangay captains and tribal leaders were asked about what they think would be indications of development in their community, they answered buildings, hotels, roads, bridges, resorts, ice plants, etc. Majority, therefore, viewed 'development' as synonymous to 'infrastructure.' This is especially true among the barangay captains, most of whom are either non-indigenous or immigrants from other provinces. However, among tribal leaders, 'development' does not necessarily mean 'development projects,' as shown in Table 2-5. More than one-third of them are 'Not Sure' about it, and the ratio of 'Agree' (including 'Completely Agree') and 'Disagree' (including 'Completely Disagree') is almost equal: 32.0% and 30.2%, respectively.

Table 2-5 Infrastructure Projects as Indication of Development

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	32.0	13.2	22.6
Agree	56.6	18.9	37.7
Not Sure	5.7	37.7	21.7
Disagree	5.7	28,3	17.1
Completely Disagree	-	1.9	0.9
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

2) Natural Resources/Environment Will be Maintained and Visited by Tourists

A great majority of the respondents have no objection to tourist visits and maintenance of the natural resources or natural environment, which they consider an asset in development, especially in tourism development.

Table 2-6 Visits to and Maintenance of Natural Resources by Tourists

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	41.2	43.4	42.3
Agree	51.0	52.8	51.9
Not Sure	3.9	. -	1.9
Disagree	3.9	3.8	3.8
Completely Disagree	_	1.9	0.9
Total	100.0	100.0	100.0

3) ICCs Will Care for Mountains and Forests to be Visited by Tourists

Majority of the respondents 'agree' on the significant role of ICCs in development, especially tourism development. However, there is a little uncertainty on both sides, barangay captains and tribal leaders, on whether or not the indigenous cultural communities should be seen as assets in tourism development. In case of the barangay captains group, several of them seem to think that the ICCs might not be suitable for tourism development because the IPs or their communities are not yet sophisticated enough to be a tourism resource. On the other hand, some tribal leaders seem to think that their communities and/or traditional culture might be disturbed if they allow tourists to visit their communities. There may be implications of this in development projects involving IPs and their ancestral domains.

Table 2-7 Visits by Tourists to Natural Resources Taken Care of by ICCs

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	36.4	34.4	35.2
Agree	50.0	49.2	49.5
Not Sure	-	•	-
Disagree	11.4	16.4	14.3
Completely Disagree	2.3	· -	1.0
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

4) Sale of Lands to Foreigners

The question on sale of lands to foreigners, as posed to the indigenous communities, can be considered useless considering that indigenous peoples do not have tenurial rights. Even if the IPs have identified their Ancestral Domain Claim, they are still prohibited to sell those lands to foreigners. Nonetheless, as expected, 57% 'completely disagreed' and 55.6% 'disagree.'

On the part of barangay captains and non-tribal dwellers, although they have tenurial rights, more than three-fourths of them disagreed to sell their lands even for the sake of development.

Table 2-8 Sale of Lands to Foreigners

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	1.9	•	1.3
Agree	5.8	3.7	5.1
Not Sure	15.4	3.7	11.4
Disagree	50.0	55.6	51.9
Completely Disagree	26.9	37.0	31.2
Total	100.0	100.0	100.0

5) Clearing of Forests to Give Way to Roads and Buildings

Majority of both groups see the value of forests over infrastructure. On the part of barangay captains, 48.1% 'disagree' (plus 25.9 who completely 'disagree') and 57.5% of tribal leaders (plus 40% who completely 'disagree.') This indicates a shift in view from the original perception that development necessarily require infrastructure. This may pave the way for environmentally sustainable tourism development to have some kind of community support.

Table 2-9 Clearance of Forests to Give Way to Roads and Buildings

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	3.7	-	2.1
Agree	11.1	-	6.4
Not Sure	11.1	2.5	7.4
Disagree	48.1	57.5	52.1
Completely Disagree	25.9	40.0	31.9
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

6) Increase of Employment Opportunities

The opposing views of the IPs and non-IPs on development is clearly shown in the answers to the question on the possibility of increase in employment opportunities through development. Majority of the former either are 'not sure' (47.2%), or 'disagree' (30.2%), while majority of the latter 'agree.' (45.1%) or 'completely agree' (33.3%) This is understandable in light of the fact that IPs may not have the skills that are required in the process of development. Hence, any kind of development projects must consider the role of capability building among IPs in order that they can have a role and a chance to participate in the said activities.

Table 2-10 Development as a Means to Increase Employment Opportunities

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	3.7	-	2.1
Agree	11.1	-	6.4
Not Sure	11.1	2.5	7.4
Disagree	48.1	57.5	52.1
Completely Disagree	25.9	40.0	31.9
Total	100.0	100.0	100.0

2.2.2 Views on Environment

1) Utilization of Natural Environment

Eighty-six percent (86%) of the total respondents 'agree' that the natural environment should be left alone. While several of the barangay captains are thinking of some sort of utilization for human activities, none of the tribal leader thinks so (only 2% answered 'Not Sure.' As the term "natural environment" was not defined in this question, it would require further study to determine if there were any definition of the word and qualification on their views.

Table 2-11 Utilization of the Natural Environment

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	26.7	35.3	30.6
Agree	50.0	62.7	55.9
Not Sure	6.7	2.0	4.5
Disagree	16.7	-	9.0
Completely Disagree		-	-
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

2) Exploitation (by any Means) of the Natural Environment

The answers of the majority of the respondents to this question may indicate a high degree of awareness on environmental protection, which is very important in any development project to be undertaken. Both non-IPs and IPs 'disagree' to the exploitation of the natural environment by any means (even if destructive)--in total, almost 87% and 98%, respectively, or 92% of the total respondents.

Table 2-12 Exploitation of the Natural Environment

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	1.9	1.9	1.9
Agree	5.8	, -	2.9
Not Sure	5.8	-	2.9
Disagree	55.8	56.6	56.2
Completely Disagree	30.8	41.5	36.2
Total	100.0	100.0	100.0

3) Wise Utilization of Natural Resources toward Sustainability

Similarly, the answers to this question will require further study to know what kind of utilization of natural resources the respondents think "wise."

Table 2-13 Wise Utilization of Natural Resources toward Sustainability

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	39.6	41.5	40.6
Agree	49.1	58.5	53.8
Not Sure	1.8	-	0.9
Disagree	9.4	-	4.7
Completely Disagree		-	-
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

2.2.3 Views on Tourism

1) Knowledge about Tourism

There is fertile ground for educational campaign in relation with the environment and tourism development. As the majority shows high degree of awareness on environmental protection, environmentally sustainable tourism should be introduced and popularized among the people, non-IPs and IPs.

Table 2-14 Knowledge about Tourism

Answer	Barangay Captains	Tribal Leaders	All Respondents
Much knowledge	21.1	7.5	14.3
Little knowledge	53.8	34.0	43.8
Not sure	19.2	9.4	14.3
No knowledge	5.8	49.1	27.6
Doesn't care	-	-	_
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

2) Tourism will Destroy the Environment and Not Give Anything Good

There is a glaring difference between the views given by the barangay captains and by the tribal leaders which should put any development planner

on guard. It may mean that the information needs on tourism of both groups are entirely different and should be addressed separately

Table 2-15 Destruction of the Environment

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	5.8	16.9	11.7
Agree	9.6	40.7	26.1
Not Sure	28.8	18.6	23.4
Disagree	53.8	8.5	29.7
Completely Disagree	1.9	15.3	9.0
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

3) Possibility of a Tourism Development Program that will Not Adversely Affect the Environment

There is not much difference in views among the groups concerning the possibility of environmentally sustainable tourism development (which are all on the positive side), and majority agrees to it: 85% for the non-IPs and 88% for the IPs.

Table 2-16 Possibility of a Tourism Development Program that will Not Adversely Affect the Environment

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	41.5	12.0	25.3
Agree	43.9	76.0	61.5
Not Sure	7.4	8.0	7.7
Disagree	7.4	4.0	5.5
Completely Disagree	-	-	•
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

4) Tourism Should Be Developed in Palawan

This question again elicited very different views between the barangay captains and tribal leaders: 80% of the former agree that tourism should be developed in Palawan, while 74% of the latter do not agree.

It seems that barangay captains welcome any development activities which will increase their communities' income level, promote economic activities

of the area, and contribute to the upliftment of people's lives. Tribal leaders, on the other hand, are reluctant to introduce unknown-to-them type of development of tourism. This again suggests the need for education campaign and information dissemination, specifically addressed to the IPs.

Table 2-17 Development of Tourism in Palawan

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	28.8	6.0	17.6
Agree	51.9	8.0	30.4
Not Sure	13.5	12.0	12.7
Disagree	5.8	62.0	33.3
Completely Disagree	-	12.0	5.9
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

5) Tourism Should be Studied before Implementation

Both groups 'agree' that it is important to undertake prior studies before implementing tourism development in Palawan.

Table 2-18 Tourism Should be Studied Before Implementation in Palawan

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	51.9	41.2	46.6
Agree	42.3	54.9	48.5
Not Sure	1.9	2.0	1.9
Disagree	3.8	2.0	2.9
Completely Disagree	-	-	-
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

2.2.4 Measures for a Sustainable Tourism in Palawan

1) Limit the Entry of Tourists to Prevent Any Negative Effect on the Environment

As the barangay captains' group have more knowledge about tourism, less than half (41%) 'agree' in limiting the number of tourists, which will result in the decrease in tourist spending. Meantime, a high number of tribal leaders (96%), who has less knowledge about tourism and sees the increase of "outsiders" as a threat to the environment, 'agree' to limit the entry of tourists.

Table 2-19 Adoption of Measure to Limit the Entry of Tourists in Palawan

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	22.4	23.5	22.9
Agree	19.0	72.5	44.0
Not Sure	17.2	3.9	11.0
Disagree	41.4	-	22.0
Completely Disagree		-	-
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

2) Limit the Number of Tourists to Prevent Any Negative Effect on the Indigenous Communities and Indigenous Peoples

The views among the barangay captains' group are split into two. Half of them 'agree' to limit the number of tourists to prevent any negative impact on the ICs, while one-third 'disagree' to it. The latter also 'disagree' to limit the number of tourists for the sake of the natural environment. It seems that, the latter group values more the economic benefits of development rather than the natural and social environments. On the other hand, a great majority of the tribal leaders 'agree' to limit the number of tourists for the sake of preserving their community and the IPs.

All in all, limiting the number of tourists for the sake of an environmentally sustainable tourism development is supported by the great majority of tribal leaders and approximately half of barangay captains. However, more than one-third of the barangay captains do not agree as it will decrease the economic contribution of the development.

Table 2-20 Limit the Number of Tourists to Prevent Any Negative Impacts on ICs and IPs

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	22.2	43.1	31.6
Agree	27.0	52.9	38.6
Not Sure	15.9	-	8.8
Disagree	34.9	2.0	20.2
Completely Disagree	-	2.0	0.9
Total	100.0	100.0	100.0

2.2.5 Views of the People on Their Involvement in Development Activities/Projects

The barangay captains and tribal leaders were asked to assess the extent of involvement of the IPs in their community (refer to Table 2-21) and in their municipality (refer to Table 2-22) when it comes to development activities and projects.

Overall, both groups think that majority of the people, including indigenous peoples, who are stakeholders of the natural and social resources, are involved in the development activities. In this case, "development" activities mean infrastructure and industrial development, which may exclude tourism. As most people are involved, the development planner should consider the involvement of these people in the planning stage and must give them the opportunity to participate in the formulation of policies.

Table 2-21 Involvement of Indigenous Peoples in Development Activities/Projects in the Community

Answer	Barangay Captains	Tribal Leaders	All Respondents
Fully Involved	31.4	17.6	24.5
Involved	62.7	60.8	61.8
I Am Not Sure	3.9	2.0	2.9
Not Involved	2.0	9.8	5.9
Fully Not Involved	- '	9.8	4.9
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

Table 2-22 Involvement of Indigenous Peoples in Development Activities/Projects in the Municipality

Answer	Barangay Captains	Tribal Leaders	All Respondents
Fully Involved	17.6	28.0	22.8
Involved	60.8	64.0	62.4
I Am Not Sure	3.9	8.0	5.0
Not Involved	9.8	-	5.0
Fully Not Involved	9.8	-	5.0
Total	100.0	100.0	100.0

2.2.6 Involvement of Barangay Captains and Tribal Leaders in Community Activities

When the barangay captains and tribal leaders were asked about their own involvement in development activities, majority of the barangay captains (89%) acknowledged active participation, as shown below:

Table 2-23 Involvement of Barangay Captains and Tribal Leaders in Development Activities in the Community

Answer	Barangay Captains	Tribal Leaders	All Respondents
Fully Involved	50.0	7.4	27.0
Involved	39.1	46.3	43.0
I Am Not Sure	10.9	44.4	29.0
Not Involved	-	1.9	1.0
Fully Not Involved	- 1	-	-
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

Tribal leaders show less active attitude and nearly half of them answered 'Not Sure.' The reason may be their lack of experience and knowledge of development activities. The following characterize the kind of development activities that will prompt the barangay captains and tribal leaders to actively participate:

- beautiful
- fast
- sustainable
- long-term
- effective
- good for all
- useful
- progressive
- sustained
- helpful

2.2.7 Perception on How the Members of their Communities can Improve their Quality of Life

The barangay captains and tribal leaders were asked how the members of their communities can improve their quality of life. They were given the following questions to react on:

- 1) The people should wait for government assistance.
- 2) The people should cooperate with government in planning for the improvement of their lives.

- 3) The people can improve their lives by themselves and there is no need to cooperate with the government.
- 4) The people need not cooperate with the government because they are content with the present state of things.

Tables 2-24 to 2-27 show the results of the answers to the above questions. Majority of the respondents think that active participation and cooperation of community members with government are needed to improve their lives. Only a little over one-fourth of the tribal leaders think of self improvement and/or express a "leave us along" philosophy. They are willing to cooperate with the government in planning for the improvement of the quality of their lives if there are any proposal from the government side. Of course they lack the experience, technique, information and knowledge, and financial basis for improving their lives. To gain these, they need government assistance. It may be much more efficient and effective, therefore, to involve them in the course of development process not only at the implementation stage but also from the planning and project formulation stage. In that way, they will find what the development means and how they can cooperate and participate with its processes.

Table 2-24 Should Community Members Wait for Government Assistance?

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	9.6	1.9	5.8
Agree	19.2	32.7	26.0
Not Sure	5.8	7.7	6.7
Disagree	57.7	57.7	57.7
Completely Disagree	7.7	-	3.8
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

Table 2-25 Should the People Cooperate with Government to Improve the Quality of Their Lives?

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	47.1	23.5	35.3
Agree	48.1	76.5	62.7
Not Sure	2.0	-	1.0
Disagree	2.0	-	1.0
Completely Disagree		-	-
Total	100.0	100.0	100.0

Table 2-26 Improvement of Life Without Government Assistance

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	4.8	-	2.7
Agree	7.9	27.7	16.4
Not Sure	27.0	2.1	16.4
Disagree	50.8	70.2	59.1
Completely Disagree	9.5	-	5.5
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

Table 2-27 Cooperation is Not Necessary Because the People are Content

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	2.0	-	1.0
Agree	2.0	19.6	10.8
Not Sure	7.8	2.0	4.9
Disagree	62.7	72.5	67.6
Completely Disagree	25.0	5.9	15.7
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

2.2.8 Views on Development and Environmental Protection and Preservation

Tables 2-28 to 2-31 provide an insight into the sentiments of the respondents about development in relation with the environment.

Table 2-28 Development May Harm the Environment

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	11.8	7.8	9.8
Agree	21.6	61.0	36.3
Not Sure	18.6	13.7	25.5
Disagree	25.5	23.5	24.5
Completely Disagree	3.9	3.9	3.9
Total	100.0	100.0	100.0

Table 2-29 Sacrifice Environment for Development

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	13.7	27.5	20.6
Agree	19.6	66.7	43.1
Not Sure	19.6	2.0	10.8
Disagree	43.1	3.9	23.5
Completely Disagree	3.9	-	2.0
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

Table 2-30 Sacrifice Development for Environment

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	20.8	32.7	26.7
Agree	34.0	63.5	48.6
Not Sure	24.5	1.9	13.3
Disagree	20.8	1.9	11.4
Completely Disagree	- [-	-
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

Table 2-31 Development Without Destruction of the Environment

Answer	Barangay Captains	Tribal Leaders	All Respondents
Completely Agree	42.3	11.8	24.2
Agree	53.8	53.9	53.9
Not Sure	3.8	32.9	21.1
Disagree	-	1.3	0.8
Completely Disagree	-	-	-
Total	100.0	100.0	100.0

Note: Figures are percentages to total answers

It is interesting to note that up to this question, the tribal leaders expressed great importance on the protection and/or preservation of the environment. But for the sake of development, 94.2% 'agree' to sacrifice the environment. There must have been a misunderstanding here because when asked whether development should be sacrificed for the sake of the environment, 96.2% answered in the affirmative.

The views of the barangay captains are split into three. One-third of them 'agree' to sacrifice the environment for the sake of development, while nearly half 'disagree.' More than half of them agree to sacrifice the development for the sake

of the environment, while one-fifth 'disagree.' There is a 'Not Sure' group to these questions who counted one-fifth to one-fourth of the total barangay captains.

Concerning the way to attain development without destroying the environment, most barangay captains viewed it possible, while one-third of tribal leaders expressed a suspicious attitude.

Overall, the respondents views can be summarized as follows: Development may harm the environment. Development should be sacrificed for the sake of the environment, but if there is a possibility of development being attained without destroying the environment, it will be better to introduce such means with the active involvement and participation of the local people regardless of their origin.

3. HIGHLIGHTS OF THE SOCIAL SURVEY RESULTS

The following table summarizes the highlights of the social survey results:

Table 2-32 Highlights of the Social Survey Results

	Tribal Leaders	Barangay Captains	Both Groups
Development	 Lands should not be sold to non-residents even if it is for the sake of 'development.' Forests should not be cleared to give way to infrastructure, such as roads and bridges. Most of them are not sure if development will increase employment opportunities. 	Natural resources, i.e. the environment is a good tourist attraction. Indigenous Cultural Communities are also good tourism assets.	Development is synonymous with infrastructure.
Natural Resources	Natural resources should be left alone. They should not be exploited by any means.		Natural resources should be utilized wisely in order to be sustainable.
Tourism	 Little knowledge on what is 'tourism.' Tourism should not be developed in Northern Palawan (part of tribal leaders) 	Tourism will not necessarily destroy the environment.	 It is possible to have a tourism development program that will not damage the environment. Tourism development should be studied well before implementation.
Others	Limiting the entry of tourists is necessary to protect the environment and the indigenous people		 Most people are considered to be involved in development activities Most barangay captains and tribal leaders consider themselves as involved in development activities People should cooperate with the government in development activities Development may be attained without destroying
			the environment

Annex C-2

QUESTIONNAIRE ON THE PERCEPTION OF "DEVELOPMENT" IN RELATION WITH ENIVIRONMENTALLY SUSTAINABLE TOURISM DEVELOPMENT TO BARANGAY CAPTAINS AND/OR TRIBAL LEADERS

Question 1	Are there any (1) Ethnologicall, (2) Geographically, (3) Socio- Economically isolated population group in your Barangay/Comunity?
	1-A If "YES", how many of them? (No. Of Families and population)
	1-B In which part of your Barangay? Please plot on the map.
	1-C If they have claimed "Ancestral Domain", please show us the area on the map.
Question 2	What is their major occupation?
Question 3	How much is their average income (per annum)?
Question 4	What is the major source of income?
Question 5	What is the general attitude of the people's towards the "DEVELOPMENT" in your Barangay/Community?
Α	They are eager to participate the development procedure.
В	They are waiting for the opportunity to participate the development procedure.
C	They are indifferent to the development procedure.
D	They are conservative enough to deny any changes accompanied with the development procedure.
E	They are wanting their living standards to be graded up by denying their way-of-life to be changed.
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F

They are having no knowledge about what the development means.

- Question 6 "Development usually brings much more convenient life, increased income, education and health, but it also brings "Environment" issues such as excessive cutting of trees, decreased number of wildlives and negative changes in the traditional social structure. What is your opinion towards the development in relation with the environment?
 - A Development should take place even at the cost of environment.
 - B Development should not take place if damages the environment.
 - C Development should take place as gradually as possible so as to avoid too much damage on the environment.
 - D Both the development and the environment shoul be taken care of with some sort of harmonius co-existence system.
- Question 7 Aa ceratin sort of harmonius co-existence of the development and the environment, "Environmentally Sustainable Tourism Development" is under consideration.
 - This kind of Tourism Development will;
 - (1) limit the number of tourists within the level of sustainable capacity of the environment.
 - (2) minimize the harmful development activities such as construction of roads, buildings and other facilities.
 - (3) provide the opportunities of your people to participate in the development activities.
 - (4) provide the opportunities of increasing your income by selling your products (foods such as grains, vegetables, fruits, meats, fishes, etc. And agro-based handicrafts and cultural souvenirs) and getting jobs at the tourism facilities, and
 - (5) identify the significance of both the natural and social environment.
 - A Are you willing to participate if the above type of tourism development takes place in or around your domain? Please answer "YES" or "NO".
 - B Do you mind if the tourists (including foreigners) visit your village/community to look into your traditional/cultural way of life? Please choose answer from below.

- B Do you mind if the tourists (including foreigners) visit your village/community to look into your traditional/cultural way of life? Please choose answer from below.
 - B-1 Willing to show them your cultural life.
 - B-2 Show them your cultural life if they pay for it.
 - B-3 Do not want to be looked into even if they pay.
 - B-4 Run away if any foreigner approaches.
- C. Even the above type of tourism develoment will bring you various cannges in your social environment. What is your perception about such changes? Please choose answer from below.
 - C-1 Social change is inevitable and we must adapt ourselves to the changes.
 - C-2 Prefer present status to be maintained and any change is not to be introduced.
 - C-3 Just leave us alone!

Annex C-1

KATANUNGAN PATUNGKOL SA KATUTUBONG PAMAYANAN

* TAGBANUA		Saan ang inyong barangay?			
	N,	_S,	E,	_W,	
	Anong	g Sitio	?		
Bilang ng pamilya.					
a. Mahigit kumulang sa 50 pamilya					
b. Mahigit kumulang sa 100 pamilya c. Mahigit kumulang sa 150 pamilya					
d.Sobra sa 200 pamilya					
* BATAK			ong ba		
	,	g Sitio			
Bilang ng pamilya. a. Mahigit kumulang sa 50 pamilya b. Mahigit kumulang sa 100 pamilya					
 b. Mahigit kumulang sa 100 pamilya c. Mahigit kumulang sa 150 pamilya 					
d.Sobra sa 200 pamilya					
*	Saan :	ang inv	yong ba	raneav'i	
			_	_W,	
	Anon	g Sitio	?		
Bilang ng pamilya. a. Mahigit kumulang sa 50 pamilya					
b. Mahigit kumulang sa 100 pamilya					
c. Mahigit kumulang sa 150 pamilya					
d.Sobra sa 200 pamilya					

Saan? N,S, E,W Sitio			
Ano ang kanilang pinagkakakitaan/ik	inabubuhay'	?	
a nanaunauha na mulat			
b. pangunguha ng yantok			
c. pangunguha ng almaciga			
d. pangingisda			
e. paggawa ng "handcrafts"			
f. atbp.			
Magkano sa palagay ninyo ang taunai	ng kita ng isa	ang katutubon	g pamil
a Vulana as D1 000 as to			
a. Kulang sa P1,000 sa isang taon			
b. Higit sa Pt,000 sa isang taon		· · · · · · · · · · · · · · · · · · ·	
b. Higit sa P1,000 sa isang taon c. Higit sa P5,000 sa isang taon		· · · · · · · · · · · · · · · · · · ·	
b. Higit sa Pt,000 sa isang taon			

MGA KATANUNGANG PATUNGKOL SA PANANAW NG BARANGAY KAPITAN AT ILAN SAMGA LIDER KATUTUBO SA ASPETO NG KAPALIGIRAN, KAUNLARAN AT TURISMO

Pangalan	Araw Kapanganakan			
Lugar	Mula Saang Probinsiya			
1. Ano ang inyong paniniwala, ang mag barangay?	papakita ng kaunlaran sa inyong			
	frastructure" kagaya ng gusali, upahang alsada, mga pribadong "beache resort", un ng golf, ice plant, atbp.			
a. lubos na sumasangayon	·			
b. sumasangayon				
c. hindi tiyak	 -			
d. hindi sumasangayon				
e. lubos na hindi sumasanga	yon			
1.2 Manatiling may likas yaman (ka dadayuhin ng mga turist	agaya ng bundok gubat at dagat) na siyang a.			
a. lubos na sumasangayon				
b. sumasangayon				
c. hindi tiyak				
d. hindi sumasangayon				
e. lubos na hindi sumasanga	yon			
1.3 May nanatiling mga katutubo na sa bundok at gubat na siyang d	a namumuhay ng tahimik at nangangalaga ladayuhin ng mga turista.			
a. lubos na sumasangayon				
b. sumasangayon				
c. hindi tiyak				
d. hindi sumasangayon				
e. lubos na hindi sumasanga	yon			

1.4 tpagotoni ang mga tupa sa mga dayuna	m ahang maging pro
a. lubos na sumasangayon	
b. sumasangayon	
c. hindi tiyak	
d. hindi sumasangayon	
e. lubos na hindi sumasangayon	
1.5 Tanggalin ang gubat para malagyan ng	mga kalsada at gusal
a. lubos na sumasangayon	·
b. sumasangayon	
c. hindi tiyak	
d. hindi sumasangayon	
e. lubos na hindi sumasangayon	
1.6 Maraming trabahong mapapasukan.	
a. lubos na sumasangayon	
b. sumasangayon	
c. hindi tiyak	
d. hindi sumasangayon	
e. lubos na hindi sumasangayon	
. Ano ang mga paniniwala mo tungkol sa kalik	asan?
2.1 Hayaan ang kalikasan na manatili o hin	di ginagalaw.
a. lubos na sumasangayon	
b. sumasangayon	
c. hindi tiyak	<u> </u>
d. hindi sumasangayon	
e. lubos na hindi sumasangayon	
2.2 Gamitin ang mga yamang kalikasan sa nakasasama) dahil hindi naman ito nau	
a. lubos na sumasangayon	
b. sumasangayon	
c. hindi tiyak	
d. hindi sumasangayon	
e. lubos na hindi sumasangayon	

2.3 Gamitin ang yamang kalikasan sa pama tumagal ang kakayahan nitong i	
a. lubos na sumasangayon	
b. sumasangayon	
c. hindi tiyak	
d. hindi sumasangayon	
e. lubos na hindi sumasangayon	
3. Usapin Tungkol sa Turismo:	
3.1 May nalalaman tungkol sa turismo.	
a. marami	
b. kaunti	
c. hindi tiyak	
d. wala	
e. walang pakialam	
3.2 Ang turismo ay sisira sa kalikasan wala	ng maidudulot na mganda.
a. lubos na sumasangayon	
b. Sumasangayon	
c. Hindi tiyak	
d. Hindi sumasangayon	
e. Lubos na hindi sumasangayon	
3.3 Maaring magkaroon ng pangturismong masisira ang kalikasan.	programa sa barangay na hindi
a. lubos na sumasangayon	
b. sumasangayon	
c. hindi tiyak	
d. hindi sumasangayon	
e. lubos na hindi sumasangayon	
3.4 Ang turismo ay dapat paunlarin sa Pala	wan.
a. lubos na sumasangayon	· ·
b. sumasangayon	<u> </u>
c. hindi tiyak	
d. hindi sumasangayon	
e. lubos na hindi sumasangayon	

Appendix D Calculation of EIRR

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Master Plan	D-1
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Table D-1 Master Plan

(Unit: Million Peso)

Project Year	Calendar Year	Benefit	Capital Invest- ment	O&M Cost	Residual Value	Net Benefit
	1997	1,980	3,806	288		-2,114
i - I	1998	2,168	4,919	340		-3,090
2 3	1999	2,375	5,047	400		-3,072
4	2000	2,601	2,533	450		-382
5	2001	3,055	2,240	580		234
6	2002	3,588	1,461	677		1,450
7	2003	4,214	976	764		2,474
8	2004	4,950	750	908		3,292
9	2005	5,814	877	1,087		3,850
10	2006	6,747	751	1,136	i	4,861
111	2007	7,831	844	1,342		5,645
12	2008	9,088	977	1,524		6,587
13	2009	10,547	1,112	1,735		7,700
14	2010	12,240	1,292	2,068		8,880
15	2011	12,240	o	2,068		10,172
16	2012	12,240	. 0	2,068		10,172
17	2013	12,240	0	2,068		10,172
18	2014	12,240	. 0	2,068		10,172
19	2015	12,240	0	2,068		10,172
20	2016	12,240	0	2,068	-	10,172
21	2017	12,240	0	2,068		10,172
22	2018	12,240	0	2,068		10,172
23	2019	12,240	0	2,068		10,172
24	2020	12,240	0	2,069	2,831	13,002
L	Total	199,599	27,585	33,983	2,831	140,862

Economic Internal Rate of Return (EIRR):

26.2%

- Benefit is estimated based on Input-Output Table of the Philippines which indicates multiplier effects by technical coefficiency for subject economic sector. Hotel and lodging sector's multiplier to other economic sector is analyzed to be 2.0000 in the case of Palawan.
- 2) Adjustment Factor applied to Capital Cost and O&M Cost is 0.86 based on shadow pricing and accepted to apply in economic evaluation by NEDA.

Table D-2 El Nido Case Study Area

(Unit: Million Peso)

	(Unit: Million Peso)						
Project Year	Calender Year	Number of Rooms Projected	Benefit	Initial Capital Invest- ment	Operation and Manage- ment Cost	Residual Value	Net Benefit
1	1997	1	2	420	9		-427
2	1998	3	11	577	20		-586
3	1999	16	59	1,356	25		-1,323
4	2000	90	335	1,061	36		-762
5	2001	112	417	1,346	158		-1,086
6	2002	143	533	528	164		-160
7	2003	185	688	360	175		153
8	2004	254	946	252	195		499
9	2005	460	1,713	515	284		914
10	2006	540	2,012	157	308		1,547
11	2007	637	2,373	190	346,		1,836
12	2008	755	2,812	233	383		2,196
13	2009	899	3,347	286	442		2,620
14	2010	1,075	4,002	352	499		3,151
15	2011	1,075	4,002	0]	499		3,503
16	2012	1,075	4,002	0	499		3,503
17	2013	1,075	4,002	0	499		3,503
18	2014	1,075	4,002	0	499		3,503
19	2015	1,075	4,002	0	499		3,503
20	2016	1,075	4,002	0	499	·	3,503
21	2017	1,075	4,002	0	499		3,503
22	2018	1,075	4,002	0	499	;	3,503
23	2019	1,075	4,002	0	499		3,503
24	2020	1,075	4,002	0	499	1,821	5,324
	Total		59,272	7,633	8,039	1,821	45,421

Economic Internal Rate of Return:

21.5%

Note:

- Benefit is estimated based on Input-Output Table of the Philippines which indicates multiplier effects by technical coefficiency for subject economic sector. Hotel and lodging sector's multiplier to other economic sector is analyzed to be 2.0000 in the case of Palawan.
- 2) Adjustment Factor applied to Capital Cost and O&M Cost is 0.86 based on shadow pricing and accepted to apply in economic evaluation by NEDA.

Table D-3 Busuanga West Case Study Area

(Unit: Million Peso)

Project Year	Calender Year	Number of Rooms Projected	Benefit	Initial Capital Invest- ment	Operation and Mainte- nance Cost	Residual Value	Net Benefit
1	1997	36	158	920	25		-786
2	1998	48	208	2,046	20		-1,858
3	1999	69	297	1,430	28		-1,160
4	2000	115	499	821	54		-377
5	2001	160	696	703	445		-453
6	2002	226	982	674	479		-171
7	2003	323	1,402	447	524		431
8	2004	466	2,023	569	588		866
9	2005	680	2,949	866	675		1,407
10	2006	764	3,313	362	724		2,228
11	2007	859	3,724	383	764		2,577
12	2008	965	4,186	429	809		2,948
13	2009	1,085	4,705	460	860		3,386
14	2010	1,220	5,290	518	917		3,855
15	2011	1,220	5,290	0	917		4,373
16	2012	1,220	5,290	0	917		4,373
17	2013	1,220	5,290	0	917		4,373
18	2014	1,220	5,290	0	917		4,373
19	2015	1,220	5,290	0	917		4,373
20	2016	1,220	5,290	0	917		4,373
21	2017	1,220	5,290	0	917		4,373
22	2018	1,220	5,290	0	917		4,373
23	2019	1,220	5,290	0	917		4,373
24	2020	1,220	5,290	0	917	2,325	
	Total		83,333	10,628	16,078	2,325	58,952

Economic Internal Rate of Return:

22.1%

Note:

- 1) Benefit is estimated based on Input-Output Table of the Philippines which indicates multiplier effects by technical coefficiency for subject economic sector. Hotel and lodging sector's multiplier to other economic sector is analyzed to be 2.0000 in the case of Palawan.
- 2) Adjustment Factor applied to Capital Cost and O&M Cost is 0.86 based on shadow pricing and accepted to apply in economic evaluation by NEDA.

Appendix E
Concept of Land Readjustment

Concept of Land Readjustment

Land Readjustment (LR) is a land development method where a group of adjoining land parcels is reorganised into a modified plan through cooperation between landowners/lessees to provide necessary economic and social infrastructures and enhance the utility/value of the land parcels. Since LR does not involve compulsory land acquisition, the landowners and lessees can stay in the project area, therefore, existing social system/neighbourhood relationship can continue. The general aim is clearly to promote land development for new or more efficient use of land of an urban nature which covers the following typical situations; urbanization of suburban areas in advance of urbanization, improvement of previously urbanized area, integration of large infrastructure facilities into existing urban area, and rehabilitation of disaster and war-damaged areas, etc. As the implementation of the LR entails maximizing public interests as well as equitably enhancing private benefits, the LR system must be equipped with a number of measures to address these often conflicting interests. They are briefly explained as follows:

Contribution: Contribution in the LR context is defined as a portion of land deducted from the lands of the participants (landowners) as their share of the project cost. The lands are the principal equity input to an LR project which cannot be replaced with any other resources, but the lands of landowners. As a result, an LR project does not require any land acquisition. The contribution is composed of the lands necessary for public facilities and Financial Land.

Financial Land: In an LR project, lands contributed by landowners are assembled in a number of locations with different purposes depending on their marketability and are then sold to generate revenues to cover the project cost.

Replotting: Replotting is a key technical and institutional concept sustaining LR. Replotting ensures that all rights and encumbrances attached to a land will remain untouched and carried over from the original lots to replots. Replotting makes it possible to reorganize distribution of lands in compliance with planned land use and desired physical features of lands. Replotting protects the rights of landowners, ensures equitable sharing of costs (in terms of contribution) and benefits (in terms of increase in land value) among landowners, and simplifies the troublesome administrative procedure for moving lands which are otherwise required. Replotting benefits the landowners, the implementing body, and the Government.

Public/Private Responsibilities Sharing: The principal concept of contribution here is to shoulder the costs according to the benefits received. The contribution will be made both in physical and monetary form by landowners, those who own various rights on the lands, Government and its attached agencies responsible for the development and maintenance of the area, and private utility/public service companies related to the area.

Statutory Power Granted to Implementing Body: Once an LR project is approved, the implementing body is granted certain statutory power within the delimited area of action to ensure smooth and effective implementation.

Public Participation and Consensus Building: Formal and informal mechanisms are provided for participation and consensus building among landowners. Formal methods are through public hearings and the organization of an LR committee comprising representatives of landowners who can directly negotiate and consult with the authorities, and so on. The venues for formal appeal is primarily confirmed during the period of commencement, replotting and valuation while informal public participation is spread over the entire period to resolve differences and to arrive at a decision acceptable to the majority.

Figure E-1 Mechanism of Land Readjustment

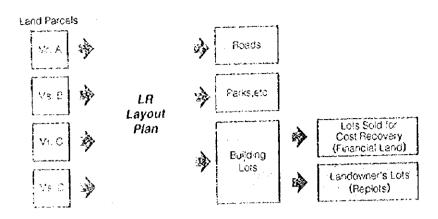


Figure E-2
Example of LR Project Carried Out in Japan

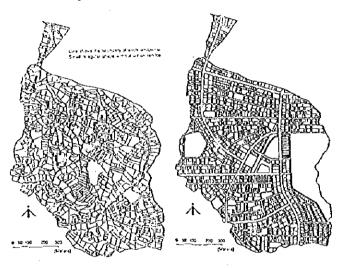
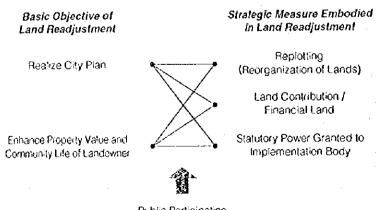


Figure E-3
Conceptual Framework of Land Readjustment



Public Participation

Cost / Responsibility Sharing Among Participants

Catalytic Measure



