Appendix

Appendix - A

Estimated Management Cost of Proposed Projects and Programs

Table A.1(1) Estimated Management Cost of Proposed Projects and Programs

				Short Term					Middle Term					Long Term			
			2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
			1	2	3	4	5	6	7	8 _ [9	10	11	12	13	14	L
MS	Coastal Spatial Use Management																
MS-1	Formulation of Provincial and Municipal/Regent	Intial Cost	790.0		0.0	0.0	0.0		0.0	0.0	0.0	0.0	510.0	0.0	0.0		1,81
	Coastal Spatial Use Plans	O/M Cost	0.0		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1
		Total Cost	790.0		0.0	0.0	0.0		0.0	0.0	0.0	0.0	510.0	0.0	0.0	0.0	1,81
MS-2	Establishment of Coastal Development Permission	Intial Cost	0.0		101.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		20
	SystemorImprovement of Criteria for Business and Building Permissions in the Coastal Area	O/M Cost Total Cost	0.0		0.0	0.0 0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Sub Total	Intial Cost	0.0		101.0	0.0	0.0		0.0	0.0	0.0	0.0	510.0	0.0	0.0		
	Sub rotai	O/M Cost			101.0				0.0	0.0	0.0	0.0					
		Total Cost	0.0 790.0		0.0 101.0l	0.0 0.0	0.0	0.0 510.0	0.0	0.0	0.0	0.0	0.0 510.0	0.0	0.0 0.0		
		Total Cost	790.0	101.0	101.01	0.0	0.0	510.01	0.01	0.01	0.01	0.01	5 (0.0]	0.01	<u> </u>	0,01	2,01
MR	Coastal Resources Use Management																
MR-1	Establishment of Community Coastal Resources	Intial Cost	960.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	96
		O/M Cost	0.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	- 6,11
		Total Cost	960.0	1	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0		7.07
MR-2	Supporting Program for Community Based Coastal	Intial Cost	0.0	1,358.0	2,506.0	3,759.0	3,759.0	3,759.0	3,759.0	3,759.0	3,759.0	3,759.0	3,759.0	3,759.0	3,759.0	3,508.4	44,96
	Management	O/M Cost	0.0	835.0	1,670.0	2,505.0	2,505,0	2,505.0	2,505.0	2,505.0	2,505.0	2,505.0	2,505.0	2,505.0	2,505.0	2,338.0	29,89
	(Formulation of Mangrove Committee and	Total Cost	0.0	2,193,0	4,176.0	6,264.0	6,264.0	6,264.0	6,264.0	6,264.0	6,264.0	6,264.0	6,264.0	6,264.0	6,264.0	5,846.4	74.85
MR-3	Establishment of Coastal Fisheries Management	Intial Cost	0.0	0.0	1,246.5	1,246.5	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,49
		O/M Cost	0.0	0.0	0.0	0.0	425,3	425.3	425.3	425.3	425.3	676.1	676.1	676.1	676.1	676.1	5,50
		Total Cost	0.0	0.0	1,246.5	1,246.5	425,3	425.3	425.3	425.3	425.3	676.1	676.1	676.1	676.1	676.1	8.00
MR-4	Installation of Community Artificial Reefs and Other	Intial Cost	104.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10
		Q/M Cast	0.0	124.0	124.0	124.0	223.0	223.0	. 223.0	223.0	. 223.0	0.0	0.0	0.0	0.0	0.0	1.48
		Total Cost	104.0	124.0	124.0	124.0	223,0	223.0	223.0	223.0	223.0	0.0	0.0	0.0	0.0	0.0	1.59
MR-5	Community Production Mangrove Forest	Intial Cost	0.0		0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		O/M Cost	0.0		0.0	0.0	190.0	190.0	190.0	190.0	190.0	0.0	0.0	0.0	0.0	0.0	95
		Total Cost	0.0		0.0	0.0	190,0	190.0	190.0	190.0	190.0	0.0	0.0	0.0	0.0	0.0	95
MR-6	Stop Dynamite Fishing and Coral Mining (Promotion for alternative materials for septic tank without Coral	Intial Cost	127.0	81.0	81.0	81.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37
	Rock)	O/M Cost	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
um e	Program on Fishery Resources Monitoring	Total Cost	127.0	81.0	81.0	81.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37
MHX-7	Program on Fishery Resources Montoning	Intial Cost O/M Cost	340.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34
		Total Cost	0.0 340.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	7,15
140.0	Publication of White Paper for Coastal Resources	Intial Cost		550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	550.0	7,49
rvr.*****	rounceson of viring raper to Coaster (esporces	O/M Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44
		Total Cost	0.0	110.0	0.0	0.0	110.0	0.0	0.0	110.0	0.0	0.0	110.0	0.0	0.0	0.0	44
	Sub Total	Intial Cost	1,531.0	1,439.0	0.0 3,833.5	5.086.5	110.0 3,759.0	0.0l 3.759.0	0.0	110.01 3,759.0	0.0	0.0	110.0	0.0	0.0	0.0	44
	Sub Total	O/M Cost	0.0	2.089.0	2,814.0	3.649.0	4,473.3		3,759.0		3,759.0	3,759.0	3,759.0	3,759.0	3,759.0	3,508.4	49,22
		Total Cost	1.531.0	3.528.0	6.647.5	8,735.5	8.232.3	4,363.3 8,122.3	4,363.3 8,122.3	4,473.3 8,232.3	4,363.3 8,122.3	4,201.1	4,311,1 8,070,1	4,201.1 7,960.1	4,201,1 7,960,1	4,034,1 7,542,5	51,537
		10101-0031	1,001,0	<u> </u>	0,047.5]	6,735.51	0,232.31	0,122,0	0,122.3	0,232.31	0,122.3	7,960.1	8,070.11	7,900.1	7,960.1	7,542.5	100,76
	Urban Environmental Management	<u> </u>			<u> </u>												
MU-1	Program on water pollution control in Manado	Intial Cost	0.0	133.3	133.3	133.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40
		O/M Cost	0.0	0.0	0.0	0.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15
		Total Cost	0.0	133.3	133.3	133.3	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	55
MU-2	Program on water pollution control in Bitung	Intial Cost	0.0	121.7	121.7	121.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36
		O/M Cost	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10
		Total Cost	0.0	121.7	121.7	121.7	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	46
	Program on Solid Waste Collection System in the Coastal Areas in Manado	Intial Cost	0.0	156.7	156.7	156.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47
		O/M Cost	0.0	0.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	42
		Total Cost	0.0	156.7	191.7	191.7	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	89

Table A.1(2) Estimated Management Cost of Proposed Projects and Programs

				Short Term					Middle Term				Long Term				
1			2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015 .	Total
			1	2	3	4	5	ĵ	7	8	9	10	11	12	13	14	_
MU-4	region on come resid sensition ejekinim the	Intial Cost	0,0	141.7	141.7	141.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	. 42
	Coastal Areas in Biltung	O/M Cost	0.0	0.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	42
	<u> </u>	Total Cost	0.0	141.7	176.7	176.7	35.0	35,0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	84
MU-S	Formulation and implementation of beautification	Intial Cost	0.0	0.0	0.0	277.5	277.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55
	programs for the coastal areas of Manado	O/M Cost	0.0	0.0	0.0	0.0	0.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	63
Lai L.C.	Formulation and implementation of beautification	Total Cost	0.0	0.0	0.0	277.5	277.5	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	1,18
MO-0	programs for the coastal areas of Bitung	Intial Cost O/M Cost	0.0	0.0	0.0	277.5	277.5	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55
	biodiging of the enerting diseas or pirold	Total Cost	0.0	0.0	0.0	0.0 277.5	0.0 277.5	70.0	70.0 70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	63
	Sub Total	Intial Cost		553.3						70.0	70.0	70.0	70.0	70.0	70.0	70.0	1.18
	out Total	O/M Cost	0.0		553.3	1,108.3	555.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,77
	· ·	Total Cost	0.0	0.0 553.3	70.0	70.0	95.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0	235.0	2,35
		TOTALCOST	0.0	553.3	623.3	1,178.3	650.0	235,0	235.0	235.0	235.0	235.0	235.0	235,0	235.0	235.0	5,12
MW	Watershed Management																
MVV-1	Protection of Soil Erosion for Corat Reef	Intial Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		O/M Cost	0.0	0.0	0.0	0.0	2.356.0	2.356.0	2,356.0	2.356.0	2,356.0	0.0	0.0	0.0	0.0	0.0	11.78
		Total Cost	0.0	0.0	0.0	0.0	2,356.0	2,356.0	2.356.0	2,356.0	2.356.0	0.0	0.0	0.0	0.0	0.0	11.7
MVV-2	Formulation of Water Pollution Control Plan for Rural	Intial Cost	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	O.C	10
	Coastal Villages	O/M Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
····		Total Cost	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10
	Sub Total	Intial Cost	0.0	0.0	0.0	0.0	100.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	10
	• "	O/M Cost	0.0	0.0	0.0	0.0	2,356.0	2,356.0	2,356.0	2,356.0	2,356.0	0.0	0.0	0.0	0.0	0.0	11.78
		Total Cost	0.0	0.0	_0.0	0.0	2,456.0	2,356.0	2,356.0	2,356.0	2,356.0	0.0	0.0	0.0	0.0	0.0	11,88
ME	Country Country 1871																
ME-1	Coastal Ecosystem and Marine Wildlife Conse Program on Coastal Environmental Monitoring																
IAIC+1	Program on Coastal Environmental Monitoring	Intial Cost O/M Cost	1 1 1 - 1 - 1 - 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.27
		Total Cost	0.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	9,75
ME-2	Patrol of Illegal Activities for Coastal Environmental	Intial Cost	1,270.0 1,940.0	750.0	750.0 0.0	750.0	730.0	750.0	750.0	750.0	750.0	750.0	750.0	750,0	750.0	750.0	11,02
	Conservation	C/M Cost	1,940.0	650.0	650.0	0.0 650.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,94
		Total Cost	1.940.0	650.0	650.0	650.0	650.0 650.0	650.0 650.0	650.0 650.0	650.0 650.0	650.0 650.0	650.0 650.0	650.0	650,0	650.0	650.0	8.45
ME-3	Establishment of Provincial Lembeh Protected Areas	Intial Cost	0.0	0.0	1.860.0	1.860.0	0.0	0.0	0.0	0.0	0.0	0.0	650.0 0.0	650.0 0.0	650.0	650.0 0.0	10.39 3.72
		O/M Cost	0.0	0.0	0.0	0.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	4,70
	*	Total Cost	0.0	0.0	1,860.0	1.860.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	470.0	8.42
ME-4	Establishment of Provincial Belang - Kotabunan	Intial Cost	0.0	0.0	1,830.0	1.830.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.69
	Protected Area	O/M Cost	0.0	0.0	0.0	0.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	450.0	460.0	4.60
		Total Cost	0.0	0.0	1,830.0	1.830.0	460.0	460.0	460.0	460.0	460.0	460.0	450.0	450.0	460.0	460.0	8,21
	Sub Total	Intial Cost	3,210.0	0.0	3,690.0	3,690.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,59
		O/M Cost	0.0	1,400.0	1,400.0	1,400.0	2.330.0	2,330,0	2,330.0	2,330,0	2,330.0	2,330.0	2,330.0	2,330.0	2,330.0	2.330.0	27,50
		Total Cost	3,210.0	1,400.0	5,090.0	5,090.0	2,330.0	2,330.0	2,330.0	2.330.0	2,330.0	2,330.0	2,330.0	2,330.0	2.330.0	2.330.0	38.09
\$L_	Institutions and Legislation										-						
\$ L -1	Establishment of Provincial Coastal Management	Intial Cost	120,0	120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
	Basic Regulation	O/M Cost	0.0	0.0	25.0	25.0	75.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	50.0	0.0	2
		Total Cost	120.0	120.0	25.0	25.0	75.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	50.0	0.0	4
SL-2	Establishment of Provincial Integrated Coastal	Intial Cost	65.0	65.0	0.0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4
	Management Office (PICMO)	O/M Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	1,
		Total Cost	65.0	65.0	0.0	0.0							↓ .↓!				

Table A.1(3) Estimated Management Cost of Proposed Projects and Programs

			_					·									
				Short Term					Middle Term					Long Term			
			2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	
\$L-3	Establishment of Municipal and Regent Integrated	Intial Cost	0.0	0.0	520.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	. 0.0	0.0	0.0	520.0
	Coastal Management Office (KICMO)	O/M Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0
		Total Cost	0.0	0.0	520.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	520.0
	Sub Total	Intial Cost	185.0	185.0	520.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	890.0
		Q/M Cost	0.0	0.0	25.0	25.0	75.0	0.0	0.0	0.0	50.0	0.0	0.01	0.0	50,0	0.0	225.0
		Total Cost	185.0	185.0	545.0	25.0	75.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	50.0	0.0	1,115.0
			-												===	-	
SI	Coastal Information System	Intial Cost		1.700.0	0.01	0.01						2.01			0.01	0.01	- 750.0
SI-T	Establishment of Coastal Information Center	O/M Cost	0.0	1,750.0	0.0	0.0	0.0	0.0	0.0	0.0 715.0	0.0	0.0	0.0	0.0	0.0	0.0	1,750.0
		Total Cost	0.0	0.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0	715.0 715.0	8,580.0
S!-2	Development and Maintenance of Coastal Provincial	Intial Cost	0.0	1,750.0 0.0	715.0 0.0	715.0	715.0 0.0	715.0 0.0	715.0 0.0	7 13.0	715.0	715.0 0.0	715.0	715.0	715,0] 0,0	0.0	10,330.0 0.0
3:-2	Development and waintenance of Coustai Provincial	O/M Cost	0.0	0.0	1.119.7	1,119.7	1,119.7	1,119.7	1,119.7	1.119.7	1.119.7	1,119.7	1,119.7	1,119.7	1.119.7	1.119.7	13,436,4
		Total Cost	0.0	0.0	1.119.7	1,119.7	1,119.7	1,119.7	1,119.7	1,119.7	1.119.7	1,119.7	1,119.7	1.119.7	1,119,7	1,119.7	13,436,4
	Sub Total	Intial Cost	0.0	1,750.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0]	0,0	0.0	1,750.0
	300 1000	O/M Cost	0.0	0.0	1.834.7	1.834.7	1.834.7	1,834.7	1,834.7	1.834.7	1.834.7	1.834.7	1.834.7	1,834.7	1.834.7	1,834.7	22,016.4
		Total Cost	0.0	1.750.0	1.834.7	1.834.7	1.834.7	1,834.7	1,834.7	1.834.7	1.834.7	1.834.7	1.834.7	1.834.7	1.834.7	1,834.7	23,766.4
		10001000	0.01	1,730.0	1,004.7	1,0,344.7	1,034,7		1,054,71	1,004./1	1,034./	1,034.7		1.004.7	1,004,71	1,004.7	23,760.4
SH	Human Resources Development							100									
SH-1	Establishment of Local Government Training Center	Intial Cost	0.0	0.0	0.0	5,490.0	0.0	. 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,490.0
		O/M Cost	0.0	. 0.0	0.0	0.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695,0	695.0	6,950.0
		Total Cost	0.0	0.0	0.0	5,490.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	695.0	12,440,0
SH-2	Development of Coastal Management Course in	Intial Cost	0.0	944.7	944.7	944.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,834.0
	Local Universities	O/M Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SH-3	5-4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Total Cost	0.0	944.7	944.7	944.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	2.834.0
SH-3	Establishment of Extension Office Training Centers for CBCM	Intial Cost	0.0	658.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	658.0
	IOI COOM	O/M Cost Total Cost	0.0	0.0 658.0	90.0	157.5 157.5	157.5	157.5	157.5 157.5	157.5	157.5 157.5	157.5	157.5	157.5	157.5	157.5	1,322.5
=	Sub Total	Intial Cost	0.01	1,602.7	944.7	6,434.7	157.5	157.5	0.0	157.5 0.0	0.0	157.5	157.5	157.5	157.5	157.5	2,480.5 8,982.0
	Sub Total	O/M Cost	0.0	0.0	90.0	157.5	0.0 852.5	0.0 852.5	852.5	852.5	852.5	852.5	0.0	0.0		0.0 852.5	
		Total Cost	0.0	1.602.7	1.034.7	6.592.2	852.5	852.5	852.5	852.5	852.5	852.5	852.5 852.5	852.5 852.5	852.5 852.5	852.5	8,772.5 17.754.5
		100.000	0.01	1.002.7	1,004,7	0,332.2	032.3	632.31	032.31	البيكاده	032.3	002.3	002.01	052.5	032,3	002.01	17,754.5
SE	Education and Enlightenment		_														
SE-1	Revision of Curriculum for Environmental Education	Intial Cost	0.0	0.0	0.0	0.0	71.5	0.0	0.0	0.0	0.0	0.0	71.5	0.0	0.0	0.0	143.0
		O/M Cost	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0	2.0	2.0	2.0	16.0
		Total Cost	0.0	0.0	0.0	0.0	71.5	2.0	2.0	2.0	2.0	2.0	71.5	2.0	2.0	2.0	159.0
SE-2	Training Program on School Teachers for	Intial Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	0.0
	Environmental Education	O/M Cost	0.0	0.0	0.0	0.0	0.0	234.6	234.6	162.2	162.2	234.6	234.6	0.0	0.0	0.0	1,262.8
		Total Cost	0.0	0.0	0.0	0.0	0.0	234.6	234.6	162.2	162.2	234.6	234.6	0.0	0.0	0.0	1,262.8
SE-3	Training Program on Coastal Community Leaders for Community Coastal Management	Intial Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Commonet Costa Instrugation	O/M Cost Total Cost	0.0	0.0	71.0	71.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	142.0
SE.4	Promotion of Awareness for Coastal Management for		0.0	0.0	71.0	71.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	142.0
J	Local Government Officials	O/M Cost	0.0	0.0	0.0 31.5	0.0 31.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0
		Total Cost	0.0	0.0	31.5	31.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0
SE-5	Enlightenment Program on Coastal Users	Intial Cost	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.0 0.0
		O/M Cost	0.0	16.7	16.7	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
		Total Cost	0.0	16.7	16.7	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
	Sub Total	Intial Cost	0.0	0.0	0.0	0.0	71.5	0.0	0.0	0.0	0.0	0.0	71.5	0.0	0.0	0.0	143.0
		O/M Cost	0.0	16.7	119.2	119.2	0.0	236.6	236.6	164.2	164.2	236.6	234.6	2.0	2.0	2.0	1,533.8
		Total Cost	0.0	16.7	119.2	119.2	71.5	236.6	236.6	164.2	164.2	236.6	306.1	2.0	2.0	2.0	1,576.8
			<u> </u>			VI							- 000.1		<u> </u>		

Table A.1(4) Estimated Management Cost of Proposed Projects and Programs

			Short Term					Middle Term					Long Term			
		2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
		. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	
SF Finances																
SF-1 Study and establishment of fund-raising and/or	Intial Cost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
fee/levy collection systems	O/M Cost	0.0	0.0	163.0	163.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326.0
·	Total Cost	0.0	0.0	163.0	163.0	0.0	_0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	326.0
OF Fishery Development										/						
DF Fishery Development DF-1 Development of Seaweed Processing Factory	Intial Cost	0.0	0.0	0.0	2,760,0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,750.0
DEVElopment of Geaweed Processing Pacing	O/M Cost	0.0	0.0		2,760.0	0.0 680.0	680.0	0.0 680.0	680.0		0.0		0.0	0.0		3,400,0
	Total Cost	0.0	0.0		2.760.0	680.0	680.0		680.0	680.0	0.0			0.0	0.0	6,160.0
DF-2 Feasibility Study on Mariculture of Groupers	Initial Cost	0.0						680.0			0.0		0.0	0.0		300.0
DF-2 Feasionity Study on Wandoutsie of Groupers	O/M Cost		0.0		0.0	0.0	0.0		0.0		0.0		0.0			0.0
	Total Cost	0.0	0.0 0.0		0.0	0.0 0.0	0.0		0.0	0.0	0.0		0.0	0.0		300,0
Sub Total	Intial Cost	0.0	0.0			0.0	0.0				0.0		0.0			3,060.0
300 10(8)	O/M Cost	0.0				680.0					0.0	1		1	, ,	3,400.0
	Total Cost	0.0	0.0		0.0 2,760.0	680.0	680.0 680.0		680.0		0.0		0.0	0.0		5,400.0 6.460.0
	(Qlai ÇOSI)	0.09		300.0	2,700.0	050.0	ט.טפט ט	1 600.0	0.000	; 600.01	0.0	. 0.0	0.0	9.0	1 .0.01	0.460.0
DY Coastal Tourism Development																
DT-1 Establishment of Certification System for Coastal	Intial Cost	0.0	310.0	0.0	0.0	0.0	0.0	78.0	0.0	0.0	0.0	0.0	78.0	0.0	0.0	466.0
Tourism Operators	Q/M Cost	0.0	0.0	. 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total Cost	0.0	310.0	0.0	0.0	0.0	0.0	78.0	0.0	0.0	0.0	0.0	78.0	0.0	0.0	466.0
DT-2 Establishment of Yourist Center for Coastal	Intial Cost	0.0	0.0	0.0	36.8	36.8	660.0	660.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.393.5
Environmental Conservation	Q/M Cost	0.0	0.0	96.0	96.0	134.1	134.1	134.1	134.1	134.1	134.1	134.1	134.1	0.0	0.0	1.264.8
	Total Cost	0.0	0.0		132.8	170.9	794.1	794.1	134.1	134.1	134.1	134.1	134.1	0.0	0.0	2,658.3
DT-3 Davelopment of Trekking and Cycling Roads in	Intial Cost	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18,231.
Manado Tua Island	O/M Cost	0,0	0.0		1,243.5	114.0	114.0	114.0	114.0		124.8	124.8	124.8	124.8	124.8	3,681.0
	Total Cost	0.0	0.0		1,243.5	114.0	114.0	114.0	114.0		124.8		124.8	124.8	124.8	21,912.5
Sub Total	Intial Cost	0.0	310.0		36.8	36.8	660.0	738.0	0.0	0.0	0.0		78.0	0.0	0.0	20,091.0
	O/M Cost	0.0	- 0.0			248.1	248.1	248.1	248.1	248.1	258.9	258.9	258.9	124.8	124.8	4,945.8
	Total Cost	0.0	310.0	19,571.0	1,376.3	284.9	908.1	986.1	248.1	248.1	258.9	258.9	336.9	124.8	124.8	25,036.8
LE Improvement of Coastal Living Environment																
LE-1 Sanitation Facilities Development Project in the	Intial Cost	0.0	246.7	246.7	246.7	246.7	246.7	246.7	246.7	246.7	463.3	463.3	463.3	463.3	463.3	4,290.0
Rural Coastal Area	O/M Cost	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Total Cost	0.0	246.7	246.7	246.7	246.7	246.7	246.7	246.7	246.7	463.3	463.3	463.3	463.3	463.3	4.290.0
LE-2 Master Plan and Feasiblinty Study for Improvement	Intial Cost	0.0	0.0		100.0	0.0	0.0	0.0	0.0		0.0		0.0	0.0	0.0	100.0
of Water Supply and Other Social Infrastructure in	O/M Cost	0.0	0.0			0.0	0.0		0.0		0.0		0.0	0.0	0.0	0.0
Small Islands and Remote Area	Total Cost	0.0	0.0		100.0	0.0	0.0		0.0		0.0		0.0	0.0		100.0
Sub Total	Intial Cost	0.0	246.7		346.7	246.7	246.7	246.7	246.7		463.3		463.3	463.3	463.3	4,390,0
	O/M Cost	0.0	0.0	1		0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0
•	Total Cost	0.0	246.7	246.7		246.7	246.7	246.7	246.7	246.7	463.3	463.3	463.3	463.3	463.3	4,390.0
				~		2.0.,	2.0.7		<u></u>	<u> </u>	,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1 700.0	-,-00.0
Total Cost	Intial Cost	5,716.0	6,187,7	28,420.7	19,462.9	4,768.9	5,175.7	4.743.7	4.005.7	4.005.7	4,222,3	4,803,8	4.300.3	4,222,3	3,971.7 (104,007.4
	O/M Cost	0.0	3,505.7	7.855.4		12,944.6	13,136.2	13,136.2	13,173.8	13,113.8	9,948.8	10,056.8	9,714.2	9,630.1	9,413.1	134,386.5
	Total Cost					17,713.5	18,311.9	17,879.9	17.179.5	17.119.5	-	14,860,6	14,014,5	1 .	13.384.8	238,393,9

Appendix - B

Result of Cost Benefit Analysis for Proposed Projects and Programs

Result of Cost Benefit Analysis for Proposed Projects and Programs Table.B.1 (Unit: million Rp.)

												: million Rp.)
Year	Year	Year	Benefits			Costs				Discounted	(10%)	
from	from					· · ·						
Project	Benefit		Incremental		Initia	l O/M	Total	Net Cash	Discount	Benefits	Costs	Net
Start	Start		Natural			. 41 1		5 1	Parameter			
			Value	Total	Cos			Flow	1.5555			
. 1		2002		. 0	5,716		•	-5,716		0.0	5,716.0	-5,716.0
2		2003		0	6,188		9,693	-9,693	•	0.0	8,812.1	-8,812.1
3	3	2004		0 -	28,42		36,276	-36,276		0.0	29,980.2	-29,980.2
4		2005	4.	0	19,460		28,221	-28,221	0.7513	0.0	21,202.7	-21,202.7
5		2006	118,382	. 118,382	4,769		17,714	100,688	1	80,856.5	12,098.6	68,757.9
Е	5 2	2007	118,382	118,382	5,176		18,312	100,070	1 .	73,505.9	11,370.2	52,135.7
7	3	2008	118,382	118,382	4 74		17,880	100,502		66,823.6	10,092.7	56,730.8
8	4	2099	118,382	118,382	4,008	3 . 13,174	17,179	101,203		60,748.7	8,815.8	. 51,932.9
. 8	5	2010	118,382	118,382	4,000	13,114	17,119	. 101,263	0.4665	55,226.1	7,986.4	47,239.7
10). · 6	2011	118,382	118,382	4 222	9,949	14,171	104,211	0.4241	50,205.5	8,009.9	44,195.6
11	. 7	. 2012	118,382	118,382	4,804	10,057	14,861	103,521	0.3855	45,641.4	5,729.4	39,912.8
12	! 8	2013	118,382	118,382	4,300	9,714	14,015	104,367	0.3505	41,492.2	4,912.0	36,580.2
13	9	2014	118,382	118,382	4,222	9,630	13,852	104,530	0.3186	37,720.2	4,413.8	33,308.3
14	10	2015	118,382	118,382	3,972	. 9,413	13,385	104,997	0.2897	34,291.0	3 877.1	30,413.9
15	11	2016	118,382	118,382		9,413	9,413	108,969	0.2633	31,173.7	2,478.6	28,694.9
16	12	2017	118,382	118,382		9,413	9,413	108,969	0.2394	28,339.7	2,253.4	26,086.3
. 17		2018	118,382	118,382	- 1	9,413	9,413	108,969		25,763.4	2,048.6	23,714.8
18	. 14	2019	118,382	118,382		9,413	9,413	108,969		23,421.2	1,862.3	21,558.9
. 19	15	2020	118,382	118,382	·	9,413	9,413	108,969	0.1799	21,292.0	1,693.0	19,599.0
- 20	16	2021	118,382	118,382		9,413	9,413	108,969	0.1635	19,356.4	1,539.1	17,817.3
21	17	2022	118,382	118,382		9,413	9,413	108,969		17, <i>5</i> 96.7	1,399.2	16,197.5
22	18	2023	118,382	118,382		9,413	9,413	108,969	0.1351	15,997.0	1,272.0	14,725.0
23	19	2024	118,332	118,382		9,413	9,413	108,989	0.1228	14,542.8	1,156.4	13,385.4
24	20	2025	118,382	118,382		9,413	9,413	108,969	0,1117	13,220.7	1,051.2	12,169.4
25		2026	118,382	118,382		9,413	9,413	108,969	0.1015	12,018.8	955.7	11,063.1
26		2027	118,382	118,382		9,413	9,413	108,969		10,926.2	8.838	10,057.4
27		2028	118,382	118,382		9,413	9,413	108,969	0.0839	9,932.9	789.8	9,143.1
28		2029	118,382	118,382		9,413	9,413	108,989	0.0763	9,029.9	718.0	8,311.9
29		2030	118,382	118,382		9,413	9,413	108,969	0.0693	8,209.0	652.7	7,556.3
		m to 2015	,		104,007		238,394	945,426		546,511.0	141,017.0	. ,000.0
		m to 2030	1,182,014	1,182,014	104,007	275,583	379,590	2,579,960		807,331.5	161,756.0	645,575.5
			.1.251213		100,-0.	,,	2, 2, 2	2,0,0,00		U. 1 UU, 1 UU	101,100.0	ب.ب الدرب

