### Project No. MW-2

1.	PROJECT TITLE	Formulation of Water Pollution Control Plan for Rural Coastal Villages
2.	LOCATION	The coastal villages in the rural zone
3.	IMPLEMENTATION	Leading Agency : PICMO, KICMO
	AGENCIES	Related Agencies : KIMPRASWIL, other agencies
		concerned, Coastal villagers
4.	OBJECTIVES	• to minimize pollution load to coastal water from the villages
		• to improve the sanitary condition of the villages in the rural
		area by improvement of toilet facilities.
1.		
5.	EXPECTED EFFECT/S	conservation of coastal environment and ecosystem
1		• preservation of fishery resources and tourism resources
6.	PROJECT COST	Rp. 100.0 million
	6-1. INITIAL INVESTMENT COST	Rp. 100.0 million (2006)
	6-2. OPERATION / MAINTENANCE	None
7.	IMPLEMENTATION SCHEDULE	Mid term(2006)
8.	PROJECT DESCRIPTION	- Formulation of the development programs of sanitation
		systems for the rural coastal villages and making their implementation a priority
9.	<b>RELATION WITH OTHER</b>	
	PROJECT/S	

### Initial Cost

Items	Unit Cost	Quantity	Sub-Total	Remark
Study & Design			and the second second	
Study and design	. N	2	Rp.100 mil.	the straight straight straight straight
		Total	Rp.100 mil.	

	1.	PROJECT TITLE	Program on Coastal Environmental Monitoring
	2,	LOCATION	Coastal area in North Sulawesi
	3.	IMPLEMENTATION AGENCIES	Leading agencies: PICMO, BAPEDALDA Related agencies: Provincial office of Ministry of Industry, Provincial office of Ministry of Health
	4,	OBJECTIVES	to assess coastal environment for management
	5.	EXPECTED EFFECT/S	more effective management of the coastal area
			<ul> <li>provision of information to decision makers for policymaking</li> </ul>
	6.	PROJECT COST	Rp. 11,020.0 million
		6-1. INITIAL INVESTMENT COST	Rp. 1,270.0 million (2002)
		6-2. OPERATION / MAINTENANCE	Rp. 9,750.0 million (2003-2015)
1		Short (2003-2005)	Rp. 2,250.0 million
		Mid (2006-2010)	Rp. 3,750.0 million
		Long (2011-2015)	Rp. 3,750.0 million
	7.	IMPLEMENTATION SCHEDULE	Short to long term 2003 – 2015
.	8.	PROJECT DESCRIPTION	Initial stage
			- to formulate monitoring plan
	·		- to prepare monitoring work
			Operation & Maintenance - to take samples and survey coastal environment such as water
	1		quality, sediment, plankton, coral, seagrass, mangrove,
			fishes and marine wildlife
			<ul> <li>to compile and analyze data</li> <li>to prepare monthly and annual reports</li> </ul>
	9.	RELATION WITH OTHER	- Fishery monitoring resource should be connected.
		PROJECT/S	- This program should be effectively used for other coastal
			management programs.

Project No. ME-1

## Initial Cost

Items	Unit Cost	Quantity	Sub-Total	Remark
Study & Design	<u></u>			
Planning	Rp.70 mil.		Rp. 70 mil,	
Equipment	· .		-	
Diving gear	Rp.33 mil.	6 sets	Rp. 200 mil.	
Underwater video camera	Rp.50 mil.	1	Rp. 50 mil.	
Underwater camera	Rp.40 mil.	1	Rp. 40 mil.	
Sampling equipment and others	Rp.410mil		Rp. 410 mil	
Seminar & Meeting			E Lease and	
Training for monitoring	Rp.500 mil.		Rp. 500 mil.	
		Total	Rp. 1,270 mil.	

		A		
Items	Unit Cost	Quantity	Sub-Total	Remark
Equipment	1.11			
Maintenance	Rp.50 mil./year	13 years	Rp. 650 mil.	
Consumable items	Rp. 50 mil/year	13 years	Rp. 650 mil.	
Reagent for chemical analysis	Rp.100 mil./year	13 years	Rp. 1,300 mil.	
Printing		14 T 1		
Survey Report	Rp.5 mil.	x 13 years	Rp. 65 mil.	
Transportation	the second second	ter de la composición		
Car rental and fuel	Rp.17 mil.	x 13 years	Rp. 221 mil.	
Boat rental and fuel	Rp.50 mil.	x 13 years	Rp. 650 mil.	
Personnel cost			· · · · · · · · · · · · · · · · · · ·	
Chief	Rp.1.5mil.	4 months x 13 years	Rp. 78 mil.	
Researcher	Rp.1.3mil.	20 persons x10months	Rp. 3,380 mil.	
		x 13 years		
Staff	Rp.0.8mil.	20 persons x10months x 13 years	Rp. 2,080 mil.	
Volunteers	Rp.2 mil.	13 years	Rp. 26 mil.	
Others		· · · · · · · · · · · · · · · · · · ·	<u> </u>	
Consumables	Rp.50 mil.	x 13 years	Rp. 650 mil.	
		Total	Rp. 9,750 mil.	

Project No. ME-2

		<u>1001 1101 1117 12</u>	
	1.	PROJECT TITLE	Patrol of Illegal Activities for Coastal Environmental Conservation
	2.	LOCATION	Priority Area for Patrol 4,000 ha
			(Preservation Zone and Conservation Zone)
	3.	IMPLEMENTATION	Leading agency: Water Police
	.	AGENCIES	Related agencies: Task Force for Coastal Environmental
			Conservation, KICMO, PICMO, Provincial/Municipal
	.		/Regency Fishery Office
	4.	OBJECTIVES	• to protect the coastal environment against illegal activities
ł			such as destructive fishing, coral mining, mangrove cutting,
	1		among other things
	5.	EXPECTED EFFECT/S	Coastal resources can be conserved and rehabilitated, and local
1			people can gain benefit from preserved coastal environment.
	6.	PROJECT COST	Rp.10,390.0 million
ł	· .	6-1. INITIAL	Rp. 1,940.0 million (2002)
Í	1	INVESTMENT COST	Kp. 1,940.0 mmon (2002)
		6-2. OPERATION /	Rp. 8,450.0 million (2003-2015)
ĺ	: I	MAINTENANCE	
		Short (2003-2005)	Rp. 1,950.0 million
	Î	Mid (2006-2010)	Rp. 3,250.0 million
	.,	Long (2011-2015)	Rp. 3,250.0 million
	7.	IMPLEMENTATION	Short term (Preparation)
		SCHEDULE	2002
			Short to Long term (Operation)
			2003-2015
	8.	PROJECT DESCRIPTION	Preparation Work
			- to prepare plan
			- to set up equipment at six priority areas
			Operation
┢	_		- to conduct patrol in six priority areas every month
	9.	RELATION WITH OTHER	Enlightenment aspect is covered with MR-6 and SE-5.
L	]	PROJECT/S	· · · · · · · · · · · · · · · · · · ·

### Initial Cost

		10 C 10 C			i i	
	Items	Unit Cost	Quantity	Sub-Total	Remark	
Equipment				·		
Radio	o communication	Rp. 100 mil.	]	Rp.100 mil.	4 stations and 20 transec	iver
GPS		Rp. 2 mil.	20	Rp. 40 mil.		
Transporta	tion	· · · ·		the first the second		
Spee	d boat	Rp. 300 mil.	6 boats	Rp.1,800 mil.		
			Total	Rp.1,940 mil.		• • • •

### **Operation & Maintenance**

· · · · ·	Items	Unit Cost	Quantity	Sub-Total	Remark
Trai	nsportation			· · · · ·	
	Fuel for boat	Rp. 350 mil.	13 years	Rp.4,550 mil.	
Pers	sonnel cost	la presenta de la			
	Volunteers	Rp. 130 mil.	13 years	Rp.1,690 mil.	
	Allowance	Rp. 70 mil.	13 years	Rp. 910 mil.	
Oth	ers			i i gra	
	Consumables	Rp. 100 mil.	13 years	Rp.1,300 mil.	
		al an an th	Total	Rp.8,450 mil.	

### Project No. ME-3

1.	PROJECT TITLE	Establishment of Provincial Lembeh Protected Area
2.	LOCATION	Lembeh island and surrounding area, Bitung Municipality
3.	IMPLEMENTATION	Leading agencies: PICMO, Bitung Municipality
Ŭ.	AGENCIES	<b>Related agencies:</b> Department of Forestry, Provincial
		Tourism Office, Bitung Municipal Tourism Office
4.	OBJECTIVES	• to establish Lembeh Provincial Protected Area in order to
		protect conserved coral reef and ecosystem
5	EXPECTED EFFECT/S	• protection on a legal basis of Lembeh Island and its
- 1		surrounding area which have rich coastal environment
÷		<ul> <li>increase of economic benefit because of increasing tourism</li> </ul>
		values in Bitung municipality and province through
		establishment of Provincial Protected area
6	PROJECT COST	Rp.8,420.0 million
0.		<u></u>
		Rp. 3,720.0 million (2004-2005)
		Rp. 4,700.0 million (2006-2015)
		None
		Rp. 2,350.0 million
		Rp. 2,350.0 million
7		
1.		Short to long term 2004 – 2015
0		Short term (2004-2005)
0.	TROJECT DESCRIPTION	- to hold public hearing and workshops
		- to conduct field survey
		- to formulate management plan
·		- to construct management facilities
		- to establish Provincial Lembeh Protected Area
		Mid to Long term (2006-2015)
		- to manage a protected area
		- to maintain management facilities
9	RELATION WITH OTHER	- This project should be based on Provincial Coastal Spatial
-		Use Plan and Bitung Municipal Coastal Spatial Use Plan
		(MS-1).
		- "Program on Water Pollution Control in Bitung (MU-3)" is
		supporting program from viewpoint of environmental
		conservation.
	<ol> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> </ol>	<ol> <li>EXPECTED EFFECT/S</li> <li>PROJECT COST</li> <li>INITIAL INVESTMENT COST</li> <li>OPERATION / MAINTENANCE Short (2002-2005) Mid (2006-2010) Long (2011-2015)</li> <li>IMPLEMENTATION SCHEDULE</li> <li>PROJECT DESCRIPTION</li> </ol>

### Initial Cost

			1 C C	
Items	Unit Cost	Quantity	Sub-Total	Remark
Study & Design		• <u> </u>		
Field survey, Planning	Rp.2 mil.	4 experts x30months	Rp. 240 mil.	
Construction of Facilities & Stru	ictures		·	· · · · · · · · · · · · · · · · · · ·
Main office	Rp. 5 mil./m <sup>2</sup>	80 m <sup>2</sup>	Rp. 400 mil.	
Warehouse	Rp. 5 mil./m <sup>2</sup>	100 m <sup>2</sup>	Rp. 500 mil.	
Park stations	Rp. 2.5 mil./m <sup>2</sup>	20 m <sup>2</sup> x 6 stations	Rp. 300 mil.	
Picr	Rp.1,000 mil.	1	Rp. 1,000 mil.	
Sign boards	Rp. 5 mil	10 sign boards	Rp. 50 mil.	
Equipment	i	l	· · · ·	
Boats	Rp.300mil	3 boats	Rp. 900 mil.	
Field survey equipment	Rp. 50 mil.		Rp. 50 mil.	
Diving gears	Rp. 7 mil.	5 sets	Rp. 35 mil.	
Radio communication	Rp. 60 mil		Rp. 60 mil.	
GPS	Rp. 2 mil.	5 sets	Rp. 15 mil.	
Computer sets	Rp. 30 mil.	2 sets	Rp. 30 mil.	
Printing		· · · · · · · · · · · · · · · · · · ·		
Posters, Handbills	Rp.80 mil.		Rp. 80 mil.	
Seminar & Mceting		· . ·	and the second second	
Workshops, community meetings	Rp. 6 mil.	10 times	Rp. 60mil.	
		Total	Rp. 3,720 mil.	

Items	Unit Cost	Quantity	Sub-Total	Remark
Study & Design				
Monitoring & Patrol	Rp.160 mil.	10 years	Rp.1,600 mil.	
Construction of facilities & strue	ctures	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Maintenance	Rp.170 mil.	10 years	Rp.1,700 mil.	7.5% of construction cost
Printing				
Posters	Rp.40 mil.	10 years	Rp.400 mil.	
Seminar & Meeting				and the second
Workshops, community meetings	Rp.30 mil.	10 years	Rp.300 mil.	
Personnel cost				
NGOs and Volunteers	Rp.70 mil.	10 years	Rp.700 mil.	
		Total	Rp.4,700 mil.	

Project No. ME-4

	-		<u>, 19115-7</u>	· · · · · · · · · · · · · · · · · · ·
	1.	PRO	JECT TITLE	Establishment of Provincial Belang-Kotabunan Protected Area
	2.	LOC	ATION	Belang-Kotabunan, Minahasa Regency
	3.	F -	LEMENTATION NCIES	Leading agencies: PICMO, Minahasa Regency Related agencies: Department of Forestry, Provincial Tourism Office, Minahasa Tourism Office, Bolaang Mongondow
	4.	OBJI	ECTIVES	<ul> <li>to establish Lembeh Provincial Protected Area in order to protect conserved-coral reef and ecosystem</li> </ul>
	5.	. EXPECTED EFFECT/S		<ul> <li>protection on a legal basis of Belang-Kotabunan area, which has rich coastal environment</li> <li>Increase of economic benefit because of increasing tourism values in Bitung municipality and province through establishment of Provincial Protected area</li> </ul>
-	6.	PRO	JECT COST	Rp. 8,260.0 million
		6-1.	INITIAL INVESTMENT COST	Rp. 3,660.0 million (2004-2005)
		6-2.	OPERATION / MAINTENANCE	Rp. 4,600.0 million (2006-2015)
			Short (2002-2005)	None
	· · ·		Mid (2006-2010)	Rp. 2,300.0 million
		· .	Long (2011-2015)	Rp. 2,300.0 million
	7.		LEMENTATION EDULE	Short to long term 2004 – 2015
	8.	PRO	JECT DESCRIPTION	Short term (2004-2005)
				- to hold public hearing and workshops
		ļ		- to conduct field survey
				- to formulate management plan
		· ·		- to construct management facilities
				- to establish Provincial Lembeh Protected Area
•				Mid to Long term (2006-2015)
				- to manage a protected area
	9.	RELATION WITH OTHER		<ul> <li>to maintain management facilities</li> <li>This project should be based on Provincial Coastal Spatial</li> </ul>
	9.		JECT/S	Use Plan and Bitung Municipal Coastal Spatial Use Plan (MS-1).
				<ul> <li>"Program on Water Pollution Control in Bitung (MU-3)" is supporting program from viewpoint of environmental conservation.</li> </ul>

### Initial Cost

	and the second			
Items	Unit Cost	Quantity	Sub-Total	Remark
Study & Design			· · · · · · · · · · · · · · · · · · ·	· · ·
Field survey, Planni	ng Rp.2 mil.	4 experts x30months	Rp. 240 mil.	· · · · · · · · · · · · · · · · · · ·
Construction of Facilities	& Structures			
Main office	Rp, 5 mil./m <sup>2</sup>	80 m <sup>2</sup>	Rp. 400 mil.	
Warehouse	Rp. 5 mil./m <sup>2</sup>	100 m <sup>2</sup>	Rp. 500 mil.	
Park stations	Rp. 2.5 mil./m <sup>2</sup>	20 m <sup>2</sup> x 4 stations	Rp. 200 mil.	
Pier	Rp.1,000 mil.	1	Rp. 1,000 mil.	
Sign boards	Rp. 5 mil	12 sign boards	Rp. 60 mil.	
Equipment			and states and	
Boats	Rp.300mil	3 boats	Rp. 900 mil	
Field survey equipm	ient Rp. 50 mil.		Rp. 50 mil.	
Diving gears	Rp. 7 mil.	5 sets	Rp. 35 mil.	
Radio communicatio			Rp. 60 mil.	······································
GPS	Rp. 2 mil.	5 sets	Rp. 15 mil.	
Computer sets	Rp. 30 mil.	2 sets	Rp. 30 mil.	
Printing		••••••••••••••••••••••••••••••••••••••		
Posters, Handbills	Rp.80 mil.		Rp. 80 mil.	
Seminar & Meeting	the second second	·	••••••••••••••••••••••••••••••••••••••	and the second s
Workshops, commu meetings	nity Rp. 6 mil.	15 times	Rp. 90mil.	
		Total	Rp. 3,660 mil.	······································

### Operation & Maintenance

	ltems	Unit Cost	Quantity	Sub-Total	Remark
Stuc	dy & Design	• • • • • • • • • • • • • • • • • • •			· · · · · · · · · · · · · · · · · · ·
÷.,	Monitoring & Patrol	Rp.160	10 years	Rp.1,600 mil.	
		mil.			
Con	struction of facilities & struc	tures		·	
	Maintenance	Rp.160	10 years	Rp.1,600 mil.	7.5% of construction cost
		mil.			
Prin	nting	· · ·			
	Posters	Rp. 40	10 years	Rp.400 mil.	
		mil.			
Sen	ninar & Meeting				
	Workshops, community	Rp.30 mil.	10 years	Rp.300 mil.	
	meetings	the second			
Pers	sonnel cost			· · · · · · · · · · · · · · · · · · ·	
	NGOs and Volunteer	Rp.70 mil.	10 years	Rp.700 mil.	
	· · · · · · · · · · · · · · · · · · ·		Total	Rp.4,600 mil.	

Project No. SL-1

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nt members,
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on
n prescribes
ice (PICMO)
Management

### Initial Cost

ftems	Unit Cost	Quantity	Sub-Total	Remark
Printing				
Regulation, handbills	Rp.100		Rp. 100 mil.	10,000 copies
	mil.			
Seminar & Meeting			······································	
Workshops	Rp. 4 mil.	5 muni/reg	Rp. 100 mil.	
		x 5 times		
Provincial Seminars	Rp. 8 mil.	5 times	Rp. 40 mil.	
		Total	Rp. 240 mil,	

Items	Unit Cost	Quantity	Sub-Total	Remark
Printing	1			
Regulation	Rp.50 mil	3 times	Rp.150 mil.	5,000 copies every 4 years
(additional printing)				(2006, 2010, 2014)
Seminar & Meeting			· · · ·	and the second
Seminar	Rp.5 mil.	5 times	Rp.75 mil.	2004, 2005, 2006
		x 3 years		
		Total	Rp. 225 mil.	

Project No. SL-2

1.	PROJECT TITLE	Establishment of Provincial Integrated Coastal Management Office (PICMO)
2.	LOCATION	All coastal areas in the North Sulawesi
3.	IMPLEMENTATION AGENCIES	Leading agency: North Sulawesi Provincial Government
4.	OBJECTIVES	<ul> <li>to establish a unified organization for coastal management at provincial level</li> <li>to effect coastal management in North Sulawesi</li> <li>to implement integrated and coordinated coastal management in North Sulawesi</li> </ul>
5.	EXPECTED EFFECT/S	<ul> <li>effective implementation of coastal management in North Sulawesi</li> </ul>
6.	PROJECT COST	Rp. 130.0 million
	6-1. INITIAL INVESTMENT COST	Rp. 130.0 million (2002-2003)
	6-2. OPERATION / MAINTENANCE	None
7.	IMPLEMENTATION SCHEDULE	Short term 2002 – 2003
8.	PROJECT DESCRIPTION	<ul> <li>to hold meeting among parliament members, government officers, and the people</li> <li>to establish Provincial Integrated Coastal Management Office</li> </ul>
9.	RELATION WITH OTHER PROJECT/S	<ul> <li>Provincial Integrated Coastal Management Office (PICMO) is prescribed by Provincial Coastal Management Regulation (SL-1).</li> <li>Municipal/Regency Integrated Coastal Management Offices (KICMOs) are proposed by SL-3.</li> </ul>

### Initial Cost

Items	Unit Cos	t Quantity	Sub-Total	Remark
Printing		· · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Posters, Handbills	· .		Rp.40 mil.	
Seminar & Meeting		·		
Meetings			Rp.90 mil.	
		Total	Rp.130 mil.	

### Project No. SL-3

1.	PROJECT TITLE	Establishment of Municipal/Regency Integrated Coastal Management Offices (KICMO)
2.	LOCATION	Manado City and Bitung Municipality, Minahasa, Bolaang Mongondow Regencies
3.	IMPLEMENTATION AGENCIES	Leading agency: Manado City, Bitung Municipality, Minahasa Regency and Bolaang Mongondow Regency
4.	OBJECTIVES	<ul> <li>to establish a unified organization for coastal management at municipal and regency levels</li> <li>to effect coastal management in Manado, Bitung, Minahasa and Bolaang Mongondow</li> <li>to implement integrated and coordinated coastal management in Manado, Bitung, Minahasa and Bolaang Mongondow</li> </ul>
5,	EXPECTED EFFECT/S	<ul> <li>effective implementation of coastal management in North Sulawesi</li> </ul>
6.	PROJECT COST 6-1. INITIAL INVESTMENT COST	Rp.         520.0 million           Rp.         520.0 million (2004)
	6-2. OPERATION / MAINTENANCE	None
7.	IMPLEMENTATION SCHEDULE	Short term (2004)
8.	PROJECT DESCRIPTION	- to establish Manado Integrated Coastal Management office
		<ul> <li>to establish Bitung Integrated Coastal Management office</li> <li>to establish Minahasa Integrated Coastal Management office</li> <li>to establish Bolaang Mongondow Integrated Coastal Management office</li> </ul>
9.	RELATION WITH OTHER PROJECT/S	<ul> <li>Municipal/Regency Integrated Coastal Management Offices (KICMOs) are prescribed by Provincial Coastal Management Regulation (SL-1).</li> <li>Provincial Integrated Coastal Management Offices (PICMO) is proposed by SL-2.</li> <li>Sangihe Talaud Regency (out side of the Study Area) should be included.</li> </ul>

### Initial Cost

		· · · ·		
ltems	Unit Cost	Quantity	Sub-Total	Remark
Printing				
Posters, Handbills	Rp.40 mil.	4 areas	Rp. 160 mil.	4 areas = 2 Regencies and 2 Municipalities
Seminar & Meeting				• • • •
	Rp.90 mil	4 areas	Rp. 360 mil.	·····
		Total	Rp. 520 mil.	

Į	1.		JECT TITLE	Establishment of Provincial Coastal Information Center				
	2.	LOC	ATION	Manado Municipality				
	3.	IMPLEMENTATION		Leading agency: PICMO				
1		AGE	NCIES					
	4.	OBJI	ECTIVES	• to establish Provincial Information Center in order to collect				
		,	·	and provide necessary information for coastal management				
	5.	EXP	ECTED EFFECT/S	• effective management of the coastal area based on scientific				
				data				
1				• cost saving on and ease of information gathering and				
				retrieval by the related agencies				
	6.	PRO	JECT COSTS	Rp.10,330 million				
ĺ	1	6-1.	INITIAL	Rp. 1,750.0 million (2003)				
			INVESTMENT COST	Kp. 1,750.0 mmon (2005)				
		6-2.	OPERATION /	Rp. 8,580.0 million (2004-1015)				
	MAINTENANCE							
			Short (2002-2005)	Rp. 1,430.0 million				
	Mid (2006-2010)		······	Rp. 3,575.0 million				
			Long (2011-2015)	Rp. 3,575.0 million				
	7.		LEMENTATION	Short to long term (2003 – 2015)				
			EDULE					
. 1	8.	PRO	JECT DESCRIPTION	Short term (Preparation work)				
				- study feasibility and detailed plan for establishment of the				
				Center				
				- construct the Center building				
				- set up equipment				
				- develop Coastal GIS				
				Short, Mid and Long term (Operation and Maintenance)				
				<ul> <li>to collect, analyze data and information</li> <li>to maintain Coastal GIS</li> </ul>				
				<ul> <li>to maintain Coastal GIS</li> <li>to provide coastal information for related agencies</li> </ul>				
	•			- to provide coastar information for related agencies				
	9.	REL	ATION WITH OTHER	Maintenance of Coastal GIS is covered by No.SI-2.				
		PRO	JECT/S					

Project No. SI-1

Initial Cost			r = r + r + r + r + r + r + r + r + r +	la de la composición de la composición Composición de la composición de la comp
ltems	Unit Cost	Quantity	Sub-Total	Remark
Study & Design				
Feasibility study,	Rp.80 mil.		Rp. 80 mil.	
operation plan				
Construction of Facilities & Struc	tures	·	eet in territoria	
Renovation of	Rp. 1	170 m <sup>2</sup>	Rp. 170 mil.	
BAPELITBANG	mil./m <sup>2</sup>		periodi a de la della	
Air conditioners	Rp. 25	8 sets	Rp. 200 mil.	and the second second second
	mil./set	and the second		
Equipment	÷	second de la composition	a di basha pasa	
Hardware	Rp.800		Rp. 800 mil.	PC server, printer, scanner,
	mil.		a de la carecta	digitizer, LAN, UPI etc
Software	Rp. 200	· · · ·	Rp. 200 mil.	GIS, spatial analysis etc.
	mil.			
Office equipment	Rp. 300	1	Rp. 300 mil.	
	mil.			
	·	Total	Rp. 1,750 mil.	

### **Operation & Maintenance**

and the second		and the second secon	for the second
Unit Cost	Quantity	Sub-Total	Remark
an a		in a state of the second	and the state of the second second
Rp.500	12 years	Rp. 6,000 mil.	
mil.	and at an each		
	est of states to		and a star water a star for a star of a
Rp.65 mil	12 years	Rp. 780 mil.	5% of equipment cost
Rp. 100	12 years	Rp. 1,200 mil.	
mil.			
Rp.50 mil	12 years	Rp. 600 mil.	
	Total	Rp. 8,580 mil.	
	Rp.500 mil. Rp.65 mil Rp. 100 mil.	Rp.500 mil.         12 years           Rp.65 mil         12 years           Rp.100         12 years           mil.         12 years           Rp.50 mil         12 years	Rp.500 mil.         12 years         Rp. 6,000 mil.           Rp.65 mil         12 years         Rp. 780 mil.           Rp. 100         12 years         Rp. 1,200 mil.           mil.         12 years         Rp. 1,200 mil.           Rp.50 mil         12 years         Rp. 600 mil.

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Note: The cost does not include purchase of new equipment due to undetermined life span.

### Project No. SI-2

. [	1.	PROJECT TITLE	Development and Maintenance of Provincial Coastal GIS
-	2.	LOCATION	North Sulawesi Province
·			
. I	3.	IMPLEMENTATION	Leading agency: Coastal Information Center
		AGENCIES	Related agency: PICMO
	4.	OBJECTIVES	• to maintain and update the Coastal GIS developed by the
			Study Team
	5.	EXPECTED EFFECT/S	• more appropriate coastal management based on scientific
			data
			• utilization and sharing of the coastal GIS by government
.	.		agencies and academic organizations not only for coastal
:			management but also for other purposes
	6.	PROJECT COST	Rp. 13,436.4 million (excluding Initial Cost)
		6-1. INITIAL	None (Initial Cost from SI-1)
· :		INVESTMENT COST	
		6-2. OPERATION /	Rp. 13,436.4 million (2004-2015)
	1	MAINTENANCE	
:		Short (2002-2005)	Rp. 2,239.4 million
	11	Mid (2006-2010)	Rp. 5,598.5 million
		Long (2011-2015)	Rp. 5,598.5 million
	7.	IMPLEMENTATION	Short to long term 2004 - 2015
		SCHEDULE	
·	8.	PROJECT DESCRIPTION	- to update data and information in Coastal GIS
÷			- to operate and maintain Coastal GIS
	9.	RELATION WITH OTHER	The Coastal GIS (SI-2) will be used with No.SI-1.
		PROJECT/S	

### Operation & Maintenance

Items	Unit Cost	Quantity	Sub-Total	Remark
Study & Design				
Data updating	Rp.8 mil.	100 sheets x 12 years	Rp.9,600 mil.	
Equipment	I	A 12 years	•	Literation and the second states of the
Software and Hardware	Rp.145.7 mil.	1 set x 12 years	Rp.1,748.4 mil.	15% of software and 10% of hardware cost
Personnel cost				
Chief	Rp.1.3 mil.	1 person x12months x 12 years	Rp.187.2 mil.	
Staff	Rp.0.8 mil.	4 person x12months x 12 years	Rp.460.8 mil.	
Others				ter and te
Consumables (paper, ink cartridge, etc.)	Rp.120 mil.	12 years	Rp.1,440.0 mil.	
	· · · · · · · · · · · · · · · · · · ·	Total	Rp.13,436.4 mil.	

1997 - B.	÷ .		
<b>Project</b>	No.	<u>SH-1</u>	·

	1.	PROJECT TITLE	Establishment of Local Government Training Center
	2.	LOCATION	Manado
	3.	IMPLEMENTATION	Leading agency: North Sulawesi Provincial Government
. 1		AGENCIES	Related agencies: all Central, Provincial,
			Municipal/Regency, Village government agencies
	4.	OBJECTIVES	• to develop human resources in order to strengthen local
			government capability
	5.	EXPECTED EFFECT/S	• strengthening of local government capability in terms of
•			coastal management under decentralization policy.
	б.	PROJECT COST	Rp. 12,440.0 million
		6-1. INITIAL	Rp. 5,490.0 million (2005)
		INVESTMENT COST	Kp. 5,490.0 mmon (2003)
	• •	6-2. OPERATION /	Rp. 6,950.0 million (2006-2015)
		MAINTENANCE	
		Short (2002-2005)	None
		Mid (2006-2010)	Rp. 3,475.0 million
		Long (2011-2015)	Rp. 3,475.0 million
	7.	IMPLEMENTATION SCHEDULE	Short to long term 2005 – 2015
	8.	PROJECT DESCRIPTION	Preparation work
:	о.	FROJECT DESCRIPTION	- to conduct Detailed Design of the Training Center
			- to construct seminar house (RC 2 floor)
1			- to construct lodging house (RC 2 floor)
	-		<ul> <li>to develop training programs and materials</li> </ul>
•			Operation
			- to train local government staffs
			- to maintain building and facilities
	9.	RELATION WITH OTHER	Project SH-2
		PROJECT/S	

### Initial Cost

Items	Unit Cost	Quantity	Sub-Total	Remark
Study & Design				
Detailed design	Rp. 280 mil.		Rp. 280 mil.	7% of construction cost
Construction of facilities & strue	ctures	·····		
Seminar House with lodging space	Rp. 7 mil.	580 m <sup>2</sup>	Rp. 4,060 mil.	RC 2 floors each
Air conditioner	Rp. 25 mil.	6 sets	Rp. 150 mil.	
Equipment	· · · ·			
Facilities of Seminar House			Rp. 700 mil.	
Others				· · · · · · · · · · · · · · · · · · ·
		· · ·	Rp. 300 mil.	
		Total	Rp. 5,490 mil.	
				· · · · · · · · · · · · · · · · · · ·

Items	Unit Cost	Quantity	Sub-Total	Remark
Printing	· ,			
Materials for training program	Rp.65 mil.	10 years	Rp. 650 mil.	
Transportation		· · · · · ·	and the second second	
	Rp.300 mil.	10 years	Rp. 3,000 mil.	
Personnel cost			the second second	
Lecturers, staff	Rp.1.3 mil.	10 persons x10months 10 years	Rp. 1,300 mil.	
Others		· · · · · · · · · · · · · · · · · · ·		
Running cost for activities and utility	Rp. 200 mil.	10 years	Rp. 2,000 mil.	
		Total	Rp. 6,950 mil.	and the state of the second second

1.	PROJECT TITLE	Development of Coastal Management Courses in Local Universities
2.	LOCATION	North Sulawesi
3.	IMPLEMENTATION AGENCIES	Leading agency : Sam Ratulangi University Related agency : Universitas Katolik De La Salle Manado
4.	OBJECTIVES	<ul> <li>to develop education course of local universities for coasta management</li> <li>to train students as government officers</li> </ul>
5.	EXPECTED EFFECT/S	<ul> <li>development of human resources of coastal management by competent and/or skilled persons from the local universities</li> <li>Development of capability of local governments for coasta management</li> </ul>
6.	PROJECT COST	Rp. 2,834.0 million
• •	6-1. INITIAL INVESTMENT COST	Rp. 2,834.0 million (2003-2005)
	6-2. OPERATION / MAINTENANCE	None
7.	IMPLEMENTATION SCHEDULE	Short term 2003 – 2005
8.	PROJECT DESCRIPTION	<ul> <li>Initial Phase</li> <li>to develop curriculum of coastal management course by universities and LGUs</li> <li>to prepare and publish text books for coastal management</li> <li>to install equipment for laboratory and survey</li> <li><u>Sam Ratulangi University</u></li> <li>to allocate facilities and equipment of coastal environmental survey for education</li> </ul>
		<ul> <li>to improve related library and GIS</li> <li><u>Universitas Katolik De La Salle Manado</u></li> <li>to allocate facilities and equipment of coastal environmental survey for education</li> <li>to allocate laboratory equipment for monitoring</li> <li>to improve related library and GIS</li> </ul>
9.	RELATION WITH OTHER PROJECT/S	Project SH-1

# Initial Cost

<ul> <li>A set of the set of</li></ul>		a ann an fheir an stàite	and the second	1 A A
Items	Unit Cost	Quantity	Sub-Total	Remark
Equipment				······································
For Laboratory and survey			Rp. 2,400 mil.	
Printing				
Textbook			Rp. 100 mil.	· · · · · · · · · · · · · · · · · · ·
Seminar & Meeting				
Meetings			Rp. 34 mil.	
Others		· · · · · · · · · · · · · · · · · · ·		
Expenses for purchasing books			Rp. 300 mil.	
	s strategi (	Total	Rp. 2,834 mil.	

### Project No. SH-3

1.	PRO	JECT TITLE	Establishment of Training for Extension Officers and Communication Center
2.	LOC	ATION	Manado: 1site
			Bitung: 1 site
			Minahasa: Likupang, Amurang, Belang (3 sites)
			Bolaang Mongondow: Inobonto, Molibagu, Kalidipang (3
	an a		sites)
3.	IMP	LEMENTATION	Leading agency: PICMO
	AGE	NCIES	Related agencies: Provincial, Municipal/Regency, Village
			government agencies
4.	OBJ	ECTIVES	• to train extension officers for promotion of Community
			based Coastal Management
			• to advise communities on Community based Coastal
· '			Management
			• to exchange information and opinion among communities
5.	EXP	ECTED EFFECT/S	• implementation of Community based Coastal Management
			properly trained extension officers
			• provide support to Community based Coastal Management
6.	PRO	JECT COST	Rp.2,480.5 million
	6-1.	INITIAL	
		INVESTMENT COST	Rp. 658.0 million (2003)
	6-2.	OPERATION /	
1.11	•	MAINTENANCE	Rp.1,822.5 million (2004-2015)
		Short (2002-2005)	Rp. 247.5 million
		Mid (2006-2010)	<b>Rp.</b> 787.5 million
		Long (2011-2015)	Rp. 787.5 million
7.		LEMENTATION	Short to long term 2003 - 2015
		EDULE	Short to tong term 2003 - 2013
8.	PRO	JECT DESCRIPTION	year 2003
· · .	100 A		- to install education equipment at 7 centers
			year 2004
			- to train trainees at 4 centers
]	j		- to operate consultation services for communities at 4 sites
			<ul> <li>to prepare 3 centers at government offices</li> </ul>
			year 2005 to 2015
		and an and a second	- to train trainees at 7 centers
ļ			- to operate consultation services for communities
9.		ATION WITH OTHER	SH-3 should be commenced with the beginning of MR-2,
1 :	PRC	JECT/S	because SH-3 provides human resources to MR-2.
Ĺ	<u> </u>		MR-2 should be commenced together with this project

	Items	Unit Cost	Quantity	Sub-Total	Remark
Equi	pment	··· ·			-
· .	OHP, Whiteboard	Rp.16 mil.	1set x 7 centers	Rp.112 mil.	
	Copier	Rp.57 mil.	1set x 7 centers	Rp.399 mil.	
	Computer	Rp.21 mil.	1set x 7 centers	Rp.147 mil.	
			Total	Rp.658 mil.	

	Items	Unit Cost	Quantity	Sub-Total	Remark
Stud	y & Design				
·	Training Program	Rp.4.1 mil	4 centers	Rp.332.1 mil.	
			x 1st year		
•	and the second second second		+		
			7 centers		
, ,			x 2nd year		
			to 12 <sup>th</sup> year		
		1 A A	(11year)		
?rìn	ling	1.1.1			
	Handout	Rp.2.4mil.	4 centers	Rp.194.4 mil.	
		-	x 1st year		
			+		
i			7 centers		
			x 2nd year	· ·	
			to 12 <sup>th</sup> year		
			(11year)		
Pers	onnel cost	a and a second	Autor in the	and the second second	· · · · · · · · · · · · · · · · · · ·
	NGOs and Volunteers	Rp.12 mil.	4 centers	Rp.972.0 mil.	
			x 1st year		
<u>.</u> 1			+		
			7 centers		
1			x 2nd year		
			to 12 <sup>th</sup> year		
			(11year)		
Othe	rs			a ser tat	· · · ·
		Rp.4 mil.	4 centers	Rp.324.0 mil.	· · ·
		-	x 1st year		
			+		
			7 centers		
			x 2nd year		
			to 12 <sup>th</sup> year		
			(11year)		
			Total	Rp.1,822.5 mil.	

### <u>Project SE-1</u>

		· · · · · · · · · · · · · · · · · · ·	<u>and the second se Second second sec second second sec</u>
	1.	PROJECT TITLE	Revision of Curriculum for Environmental Education
	2.	LOCATION	North Sulawesi Province
		IMPLEMENTATION	Taadim and Pilantin CC
	3.	IMPLEMENTATION AGENCIES	Leading agency : Education office
		AGENCIES	<b>Related agencies</b> : PICMO, Regency/Municipal Education office, KICMO, Sam Ratulangi University
ļ			
	4.	OBJECTIVES	• to revise the curriculum to contain appropriate items that
1			make school children/junior high school students
			understand the value of their own coastal
			environment/resources
	5.	EXPECTED EFFECT/S	• improvement of environmental awareness by the resource
			users through the environmental education.
	6,	PROJECT COST	Rp. 159.0 million
		6-1. INITIAL INVESTMENT COST	Rp. 143.0 million (2006, 2012)
		6-2. OPERATION /	Rp. 16.0 million
		MAINTENANCE	
	10	Short (2002-2005)	None
		Mid (2006-2010)	Rp. 8.0 million (2007-2010)
	7.	Long (2011-2015) IMPLEMENTATION	<u>Rp. 8.0 million (2011, 2013-2015)</u>
	/. 	SCHEDULE	Mid to long term 2006-2015
	8.	PROJECT DESCRIPTION	- to develop the curriculum and teaching materials for
			environmental education through meetings
•			- to develop prototypes of teaching materials and examine
			the draft of textbook
			- to revise the curriculum after 6 years if necessary
	9.	RELATION WITH OTHER	Project SE-2 should follow after this project.
•		PROJECT/S	

	Items	Unit Cost	Quantity	Sub-Total	Remark
Dev	elopment of Curriculum			I	
	ipment		· ·		
.1	Preparation of materials	Rp.0.1mil.	25 sets x 2 times	Rp.5.0 mil.	2 times (2006 and 2012)
Prin	ting			J	
	Draft of text	Rp.5,000	100 sets x 2 times	Rp.1.0 mil.	
	Text	Rp.8,000	1,000set x 2 times	Rp.16.0 mil.	
Sem	ainar & Meeting				······································
· .	Meeting	Rp.9.5mil.	2 times	Rp.19.0 mil.	
Othe		the states	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	4	
•	Socialization cost	Rp0.25mil	100 person x 2 times	Rp.50.0 mil.	
	Communication & others	Rp0.5mil.	2 times	Rp.1.0 mil.	· · · · · · · · · · · · · · · · · · ·
		1 1 1 p	Sub total	Rp.92.0 mil.	
Dev	elopment of Teaching Mate	rials		· · · · · · · · · · · · · · · · · · ·	
Equ	ipment				
1.	Preparation of materials	Rp.4 mil.	2 times	Rp.8.0 mil.	2 times (2006 and 2012)
Prin	ting	e for a star pa		an tan	
14,1	Textbook	Rp.5 mil/ 1,000set	2 times	Rp.10.0 mil.	
Sem	ninar & Meeting	All and the second		terre a series de la companya de la	·
	Meeting	Rp.12 mil.	2 times	Rp.24.0 mil.	
Othe					
. 1 	Socialization cost, reports	Rp.4 mil.	2 times	Rp.8.0 mil.	Report of suggestions, conclusion of workshop
	Communication & others	Rp0.5mil.	2 times	Rp.1.0 mil.	
			Sub total	Rp.51.0 mil.	
1.1	and the second		Total	Rp.143.0 mil.	

Items	Unit Cost	Quantity	Sub-Total	Remark
Study & Design			and the second second	
Monitoring and Revision of Curriculum	Rp.1 mil.	8 times	Rp.8 mil.	8 times (2007-2011, 2013-2015)
Printing		t in the second second	·	
Questionnaire etc.	Rp.1 mil.	8 times	Rp.8 mil.	
		Total	Rp.16 mil.	

### Project SE-2

1.	PROJECT TITLE	Training Program on School Teachers for Environmental Education		
2.	LOCATION	North Sulawesi Province		
3.	IMPLEMENTATION AGENCIES	Leading agency : Education office, PICMO Related agency: Regency/Municipality, village :		
		Headmasters (SD/MI, SLTP/MTs), Teachers (SD/MI, SLTP/MTs), UNSRAT		
4.	OBJECTIVES	<ul> <li>to implement the education through improvement of the teachers' knowledge and competence on education for coastal management</li> </ul>		
		• to promote the implementation of the education for coastal management		
5.	EXPECTED EFFECT/S	<ul> <li>development of appropriate teaching materials on environmental education by the trained teachers.</li> </ul>		
		<ul> <li>Improvement of environmental awareness of children/students</li> </ul>		
		• Enhancement of cooperation between schools and communities		
6.	PROJECT COST	Rp. 1,262.8 million		
	6-1. INITIAL INVESTMENT COST	None		
	6-2. OPERATION / MAINTENANCE	Rp. 1,262.8 million (2007-2012)		
	Short (2002-2005)	None		
	Mid (2006-2010)	Rp. 793.6 million		
	Long (2011-2015)	Rp. 469.2 million		
7.	IMPLEMENTATION SCHEDULE	Mid to long term 2007-2012		

8.	PROJECT DESCRIPTION	For teachers in remote coastal area
		For 400 primary schools on remote coastal area
		- to train a total of 800 teachers in 2 years
		1 teacher/school X 400 schools X 2 years=800 teachers
		(50 teachers/1 time course X 8 times/year X 2 years=800)
		For 80 secondary schools on remote coastal area
		- to train a total of 320 teaches in 2 years
		1 teacher/school X 80 school X 2 years=320 teachers
1		(40 teachers/1 time course X 4 times/year X 2 years=320)
		The training period will be 3 days. After 2 years passed, the
		training will be completed and switched to the training for
÷		teachers in college/university.
		For schoolmasters in remote coastal area
		For 400 primary schools on remote coastal area
		- to train a total of 400 schoolmasters in 2 years
		1 schoolmaster/school X 400 schools = 400 schoolmaster
		(100 schoolmasters/1 time course X 2 times X 2 years=400
		For 80 secondary schools on remote coastal area
÷		- to train a total of 80 teachers in 2 years
		. 1 schoolmaster/school X 80 schools=80 schoolmasters
		(40 schoolmasters/1 time course X 1 times X 2 years=80)
÷		Training period will be 2 days. After completion, the training
2		will be held for only newly appointed schoolmasters.
1		
		For teachers in coastal urban area
		For 350 primary schools on urban coastal area
		- to train a total of 720 teachers in 2 years
		1 teacher/school X 360 schools X 2 years=700 teachers
		(45 teachers/1 time course X 8 times/year X 2 years=720)
		For 100 secondary schools on urban coastal area
÷		
		- to train a total of 400 teachers in 2 years
$+ \epsilon^{2}$	and the second second second second	1 teacher/school X 200 schools X 2 years=400 teachers
		(50 teachers/1 time course X 4 times/year X 2 years=400)
		Training period will be 3 days. After 2 years passed, the
		training will be completed and switched to the training for the
		teachers in college/university.
9.	<b>RELATION WITH OTHER</b>	Project SE-1 must be completed before this project.
	PROJECT/S	The new textbook should be published before this Project.

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## Operation & Maintenance

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	Items	Unit Cost	Quantity	Sub-Total	Remark
For	teachers in remote coastal a	irea	· · · ·		
Equ	ipment				
	Preparation of materials	Rp.0.1	(50 sets	Rp.112.0 mil.	For primary school 16 times,
	1. Sec. 1.	mil.	x 8 times +		secondary school 8 times
			40 sets		during 2 yeas (2007,2008)
			x 4 times)		
	<u> </u>		x 2 years		<u> </u>
Prin	ting		T	T	·
	Report	Rp.2,500	1,120 sets	Rp.5,6 mil,	
		L	x 2 years		
Sen	ninar & Meeting			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>
÷ .	Meeting	Rp.14.23	12 times	Rp.341.6 mil.	
0.0		mil.	x 2 years	L	
Oth		D C 1		D 10.0 11	r
	Communication & others	Rp.5 mil.	2 years	Rp.10.0 mil.	
For	cahool magtars in someta	antal area	Sub total	Rp.469.2 mil.	L
	school masters in remote co	astal area	· · · · · ·		
Equ	Preparation of materials	B <sub>n</sub> 0.1	(100 sets	De OC O mil	
	rieparation of materials	Rp.0.1 mil.	x 4  times  +	Rp.96.0 mil.	For primary school 8 times,
		311111.	40 sets		secondary school 4 times
			x 2 times)		during 2 years (2009,2010)
			x 2 years		
Prin	uting			L	L
	Report	Rp.2,500	960 sets	Rp.4.8 mil.	J
		,,	x 2 years		
Sen	linar & Meeting	· · · · ·	· · · · · · · · · · · · · · · · · · ·		I
•	Meeting	Rp.17.8	6 times	Rp.213.6 mil.	
		mil	x 2 years		
Oth	ers				· · · · · · · · · · · · · · · · · · ·
	Communication & others	Rp.5 mil.	2 years	Rp.10.0 mil.	
			Sub total	Rp.324.4 mil.	
	teachers in coastal urban a	rea	<u> </u>		
Equ	ipment				
	Preparation of materials	Rp.0.1	(45 sets	Rp.112.0 mil.	For primary school 16 times,
-		mil.	x 8 times +		secondary school 8 times
			50 sets		during 2 years (2011,2012)
			x 4times)		
	1	l <u></u> ,	x 2 years	<u> </u>	
rm	nting	<u>n a coo</u>	1 100	<u>n 777</u>	
	Report	Rp.2,500	1,120 sets	Rp.5.6 mil.	
San	inar & Meeting	L	x 2 years	L	
SCII	Meeting	Rp.14.23	17 11-00	D= 2416-2	
	Intecting	mil.	12 times	Rp.341.6 mil.	
Oth	ers	_ 11111 <b>.</b>	x 2 years	L	L
Out	Communication & others	Rp.5 mil.	2 years	Rp.10.0 mil.	
	Conumentation & others	L XP.5 IIII.	Sub total		
			Total	Rp.469.2 mil.	
			TOTAL	Rp.1,262.8 mil.	<u> </u>

<u>Pro</u>	<u>iect SE-3</u>	
1.	PROJECT TITLE	Training Program on Coastal Community Leaders for Community Coastal Management
2.	LOCATION	North Sulawesi Province
3.	IMPLEMENTATION AGENCIES	Leading agency: KICMO Related agencies: PICMO
4.	OBJECTIVES	<ul> <li>to train community leaders for promotion of community based coastal management</li> <li>to increase knowledge and develop capability of community based coastal management for community</li> </ul>
5.	EXPECTED EFFECT/S	<ul> <li>eomining based constant initiagement for community leaders</li> <li>promotion of the CBCM in the communities where the</li> </ul>
		<ul> <li>promotion of the CBCM in the communities where the participants live, in collaboration with extension officers</li> <li>organizing of CBCM Boards and Community based Public Awareness activities by the trainees in their own villages</li> </ul>
		• appropriate management of the coastal area by the people
6.	PROJECT COST	Rp. 142.0 million
	6-1. INITIAL INVESTMENT COST	None
1.00	6-2. OPERATION / MAINTENANCE	Rp. 142.0 million (2004-2005)
	Short (2002-2005)	Rp. 142.0 million
	Mid (2006-2010)	None
	Long (2011-2015)	None
7.	IMPLEMENTATION SCHEDULE	Short (2004 - 2005)
8.	PROJECT DESCRIPTION	<ul> <li>to hold training program for 400 community leaders</li> <li>(2 persons/community x 25 communities x 4 times/year x 2</li> <li>ycars = 400)</li> </ul>
9.	RELATION WITH OTHER PROJECT/S	

### **Operation & Maintenance**

Items	Unit Cost	Quantity	Sub-Total	Remark
Equipment		and the second		
Training material	Rp.0.1 mil.	50 sets x 4 times x 2 years	Rp. 40.0 mil.	
Printing		e estato de la terra	The all the second	and the second second
	Rp.2,500	400 sets x 2 years	Rp. 2.0 mil	
Seminar & Meeting		Nu state i		
	Rp.11.25 mil.	4 times x 2 years	Rp. 90.0 mil.	
Others	the second second			
Communication & others	Rp.5 mil.	2 years	Rp. 10.0 mil.	
		Total	Rp.142.0 mil.	

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Project SE-4

1.	PROJECT TITLE	Promotion of Awareness for Coastal Management for Local Government Officials
2.	LOCATION	North Sulawesi Province
3.	IMPLEMENTATION	Leading agency: PICMO
	AGENCIES	Regency/Municipality: KICMO
4.	OBJECTIVES	• to promote the local officials' awareness in terms of coastal
		management
		• to upgrade the proper knowledge in terms of coastal
		management
		<ul> <li>to make local government officers proud of the their job</li> </ul>
5.	EXPECTED EFFECT/S	• creation of incentive for local government officials to make
		coastal management work
		· development of a sense of responsibility for coastal
		management in local government officials
6.	PROJECT COST	Rp. 63.0 million
	6-1. INITIAL	None
	INVESTMENT COST	
	6-2. OPERATION /	Rp. 63.0 million
{	MAINTENANCE	
	Short (2002-2005)	Rp. 63.0 million (2004-2005)
1	Mid (2006-2010)	None
	Long (2011-2015)	None
7.	IMPLEMENTATION	Short term (2004-2005)
	SCHEDULE	
8.	PROJECT DESCRIPTION	<ul> <li>to prepare training materials</li> </ul>
		- to conduct the training sessions
	BELLEVON WITH OFFICE	
9.	RELATION WITH OTHER	
L	PROJECT/S	

Items	Unit Cost	Quantity	Sub-Total	Remark	
Equipment		·J		· · · · ·	•
Training material	Rp. 0.1 mil.	40 sets x 3 times x 2 years	Rp.24.0 mil.	2 ycars (2004,2005)	
Printing				and the second second	
	Rp.2,500	240 sets x 2 years	Rp.1.2 mil.		
Seminar & Meeting				•	
	Rp.3.8 mil.	3 times x 2 years	Rp.22.8 mil.		
Others	All states			· · ·	
Communication & othe	rs Rp.1.5 mil,	2 years	Rp.3.0 mil.		;
Miscellaneous	Rp. 6.0 mil.	2 years	Rp.12.0 mil.		
	·····	Total	Rp.63.0 mil	<u> </u>	

### Project No. SE-5

	'	
1.	PROJECT TITLE	Enlightenment Program for Coastal Users
2.	LOCATION	North Sulawesi Province
3.	IMPLEMENTATION	Leading agency: PICMO, KICMO
	AGENCIES	Related agencies:
4.	OBJECTIVES	• to enlighten all the coastal users in the Province in terms of
		appropriate uses of the coast
5.	EXPECTED EFFECT/S	· conservation of the coastal areas of the Province from
}		human pressures such as destructive fishing methods
		through the Project
6.	PROJECT COST	Rp. 50.0 million
	6-1. INITIAL	None
	INVESTMENT COST	INONC
· · ·	6-2. OPERATION /	Rp. 50.0 million (2003-2005)
	MAINTENANCE	Kp. 50.0 mmillion (2003-2005)
	Short (2002-2005)	Rp. 50.0 million
	Mid (2006-2010)	None
	Long (2011-2015)	None
7.	IMPLEMENTATION	Short term (2003-2005)
	SCHEDULE	
8.	PROJECT DESCRIPTION	- to prepare enlightenment materials
		- to issue newsletter
		<ul> <li>to hold workshops and seminars</li> </ul>
9.	<b>RELATION WITH OTHER</b>	Project SF-1, Project MR-6
	PROJECT/S	

· · ·			and the second	and the second
Items	Unit Cost	Quantity	Sub-Total	Remark
Equipment				
Newsletter	Rp. 1 mil.	2 sets	Rp.18.0 mil.	3 years (2003, 2004,2005)
		x 3 times	•	, (,,
	· ·	x 3 years	· .	and the second
Printing	· · · ·			· · · · · · · · · · · · · · · · · · ·
	Rp. 2,500	600 sets	Rp. 4.5 mil	
		x 3 years	. ·	
Seminar & Meeting				<u> </u>
	Rp. 2 mil.	3 times	Rp.18.0 mil.	
		x 3 years	•	
Others				
Communication & others	Rp. 1.5 mil.	2 years	Rp. 3.0 mil.	
Miscellaneous	Rp. 6.0 mil.	2 years	Rp. 6.5 mil.	
		Total	Rp. 50.0 mil.	

Project	No.	SF-1

[	1.	PRO.	IECT TITLE	Study of Environmental Fee/Levy Collection System						
	2.	LOC	ATION	North Sulawesi Province						
	3.	IMPI	LEMENTATION	Leading agency: PICMO, KICMO						
		AGE	NCIES	Related agencies: Other Municipality/Regency Offices						
	4.	овл	ECTIVES	<ul> <li>to justify proposing coastal user fee and environmental fee/levy collection system</li> </ul>						
				• to prepare the imposition of coastal user fee and the operation of an environmental fee/levy collection system						
	5.	EXP	ECTED EFFECT/S	<ul> <li>ensure revenue for coastal management by introduction of new fee and levy system</li> </ul>						
	- 2			• implementation of coastal management through revenue						
Ì	6.	6. PROJECT COST		Rp. 326.0 million						
		6-1.	INITIAL INVESTMENT COST	None						
		6-2.	OPERATION / MAINTENANCE	Rp. 326.0 million (2004-2005)						
-			Short (2002-2005)	Rp. 326.0 million						
•			Mid (2006-2010)	None						
			Long (2011-2015)	None						
	7.	IMPLEMENTATION SCHEDULE		Short term (2004-2005)						
	8.	PROJECT DESCRIPTION		- to collect related information and opinions from resource						
	• • •			users						
	2.4	ан. 194		- to hold meetings among the relevant agencies						
			eens het Streep van de see	- to prepare reports based on the results of the surveys.						
	9.		ATION WITH OTHER	Project SE-5						
		PRO.	JECT/S							

Ope	eration & Maintenance			•	
	Items	Unit Cost	Quantity	Sub-Total	Remark
Stud				040 1014	
1	Collection of information	Rp. 2 mil.	10 sets and	Rp. 10 mil.	· · · · · · · · · · · · · · · · · · ·
	and opinions		times	*	
Prin	ting			·······	· · · · · · · · · · · · · · · · · · ·
	Reports, etc.	Rp.10 mil.	2 times	Rp. 20 mil.	
	Meeting paper, etc.	Rp.2 mil.	4 areas	Rp. 64.0 mil.	
		<b>.</b>	x 4 times	^	•
1			x 2 years		
Sem	inar & Meeting				
	Workshop, public hearing	Rp.7 mil.	4 areas	Rp. 224.0 mil.	
ан 1.		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	x 4 times		
		<u></u>	x 2 years		
Othe		· · · · · · · · · · · · · · · · · · ·	-		
	Communication, etc.			Rp. 8.0 mil.	
			Total	Rp. 326.0 mil.	

### Project No. DF-1

_		the second s	
	1.	PROJECT TITLE	Pilot Project of Seaweed Processing Development
	2.	LOCATION	Manado
	3.	IMPLEMENTATION	Leading agency: Provincial Fishery Office
		AGENCIES	Related agency: -
	4.	OBJECTIVES	• to assess the possibility of seaweed processing activities in the Province
	5.	EXPECTED EFFECT/S	• identification of possible seaweed processing in the
			Province in order to improve the living environment of the people and their local economy
.[	6.	PROJECT COST	Rp. 6,160.0 million
	•	6-1. INITIAL INVESTMENT COST	Rp. 2,760.0 million (2005)
		6-2. OPERATION / MAINTENANCE	Rp. 3,400.0 million (2006-2010)
1		Short (2002-2005)	None
		Mid (2006-2010)	Rp. 3,400.0 million
		Long (2011-2015)	None
	7.	IMPLEMENTATION SCHEDULE	Short to Mid term (2005-2010)
	8.	PROJECT DESCRIPTION	- to identify the seaweed processing products from the
	÷		financial and other suitability
			- to design and construct the pilot seawced factory
•	10		- to sell the seaweed processing products
			- to evaluate the pilot project
	9.	RELATION WITH OTHER	In the near future, the private sector should operate the pilot
		PROJECT/S (Important	factory and project.
L		notice)	

Items	Unit Cost	Quantity	Sub-Total	Remark
Study & Design			· · · · · · · · · · · · · · · · · · ·	
Feasibility Study			Rp. 100 mil.	a to a to a to
Detailed design	Rp. 280 mil.	1	Rp. 140 mil.	7% of construction cost
Construction of facilities & struc	tures			
Pilot factory			Rp. 2,020 mil.	RC 1 floor
Equipment		1.1		
Seaweed processing materials			Rp. 500 mil.	
		Total	Rp. 2,760 mil.	

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### **Operation & Maintenance**

		1. S. S. S. S. S. S.	and the second	
Items	Unit Cost	Quantity	Sub-Total	Remark
Printing				
Evaluation Study			Rp. 100 mil.	
Seminar & meeting				
Raw materials	Rp. 30	5 years	Rp. 150 mil.	
Transportation				
	Rp. 300 mil.	5 years	Rp. 1,500 mil.	
Personnel cost		and the states of the second		
Processing workers	Rp. 1.3 mil.	10 persons x10months x 5 years	Rp. 650 mil.	
Others	···	a terreta de la composición de la compo	<u>.</u>	
Running and maintenance costs	Rp. 200 mil.	5 years	Rp. 1,000 mil.	
	and the second	Total	Rp. 3,400 mil.	

### Project No. DF-2

1.	PROJECT TITLE	Feasibility Study on Mariculture of Grouper
2.	LOCATION	North Sulawesi
3.	IMPLEMENTATION	Leading agency: Provincial Fishery Office
	AGENCIES	Related agency: Sam Ratulangi University
4.	OBJECTIVES	• to study the feasibility of mariculture of Grouper for the
		local people in North Sulawesi
5.	EXPECTED EFFECT/S	• improvement of the living environment of the people and
		their local economy.
6.	PROJECT COST	Rp. 300.0 million
	6-1. INITIAL INVESTMENT COST	Rp. 300.0 million (2004)
	6-2. OPERATION / MAINTENANCE	None
7.	IMPLEMENTATION SCHEDULE	Short term (2004)
8.	PROJECT DESCRIPTION	- to study the feasibility of mariculture of Grouper including marketing, technical study, financial study
9.	<b>RELATION WITH OTHER</b>	In the near future, selected communities continue to operate
	PROJECT/S (Important	the Project.
	notice)	

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**Operation & Maintenance** 

Items	Unit Cost	Quantity	Sub-Total		Remark	
Study						
Feasibility study			Rp. 300 mil.	.'		
		Total	Rp. 300 mil.			: 11

170	ject No. DT-1	
1.	PROJECT TITLE	Establishment of Certification System for Coastal
		Tourism Operators
2.	LOCATION	North Sulawesi Province
3.	IMPLEMENTATION AGENCIES	Leading agency: PICMO, Tourism Office and other
		agencies concerned
		Related agency: KICMOs, Tourism Offices, and other
		agencies concerned, North Sulawesi Water Support
<u> </u>		Association
4.	OBJECTIVES	• to improve the knowledge and skills for tourism
		operators in terms of environmental conservation
		through decreasing of impact from tourism activities
:		• to encourage tourism operators to contribute to
		coastal environmental conservation such as
		monitoring illegal activities
		• to educate tourists in terms of environmental
		conservation by tourism operators
5.	EXPECTED EFFECT/S	• conservation of coastal environment in cooperation
		with tourism sector.
6.	PROJECT COST	Rp. 466.0 million
	6-1. INITIAL	Rp. 466.0 million (2003, 2008, 2013)
·	INVESTMENT COST	Kp. 400.0 mmon (2003, 2008, 2013)
•	6-2 OPERATION /	None
ļ	MAINTENANCE	
7.	IMPLEMENTATION SCHEDULE	Short to Long term (2003 – 2013)
8.	PROJECT DESCRIPTION	Preparation work
		- to prepare training program
·		<ul> <li>to prepare training materials</li> </ul>
		Operation
		- to implement training program for tourism
		operators
		- to issue certificate for trained tourism operators
9.	RELATION WITH OTHER	Training Program will be held at Tourist Center (DT-1)
	PROJECT/S	or Local Government Training Center (SH-1).

Project No. DT-1

Note: Training fee will cover operation cost and a certificate will be issued to participants.

### Initial Cost

		<ul> <li>March 1997 And 1997</li> </ul>	and the second	
Items	Unit Cost	Quantity	Sub-Total	Remark
Study & Design		·		
Preparation of Program		······································	Rp. 100 mil.	
Equipment				
Copy machine	Rp. 72 mil.	1	Rp. 72 mil.	
White board	Rp. 3 mil.	$1 \times 3 \text{ times}$ = 3	Rp. 9 mil.	2003, 2008, 2013
OHP	Rp. 15 mil.	$1 \times 3 \text{ times}$ = 3	Rp. 45 mil.	2003, 2008, 2013
Computer sets	Rp. 30 mil.	$2 \times 3 \text{ times}$ = 6	Rp. 180 mil.	2003, 2008, 2013
Printing	a a la compañía de la		in a fight states	
Poster, handbills	Rp. 20 mil		Rp. 20 mil.	
Presentation materials	Rp. 10 mil.		Rp. 10 mil.	
Training materials	Rp. 30 mil.		Rp. 30 mil.	
		Total	Rp. 466.0 mil.	

# Project No. DT-2

1.       PROJECT TITLE       Establishment of Tourist Center for Coastal Environmental Conservation         2.       LOCATION       Manado and Bunaken areas         3.       IMPLEMENTATION AGENCIES       Leading agency: Provincial Tourism Office Related agency: PICMO, KICMO, Municipal/Regency Tourism Offices         4.       OBJECTIVES       • to prepare environmentally friendly tourism improvement plan for promotion and control of tourism development by both public and private sectors         5.       EXPECTED EFFECT/S       • orderly and appropriate promotion of the related tourism development from viewpoint of environmental conservation in the coastal area         6.       PROJECT COST       Rp. 2,658.3 million         6-1.       INITIAL INVESTMENT COST       Rp. 1,393.5 million (2005-2008)         6-2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         MAINTENANCE       Rp. 040.3 million         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 – 2013)         8.       PROJECT DESCRIPTION       to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 – 2013)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism service facilities, such as visitor center, promenade, etc. with the cooperati				
2.       LOCATION       Manado and Bunaken areas         3.       IMPLEMENTATION AGENCIES       Leading agency: Provincial Tourism Office Related agency: PICMO, KICMO, Municipal/Regency Tourism Offices         4.       OBJECTIVES       • to prepare environmentally friendly tourism improvement plan for promotion and control of tourism development by both public and private sectors         5.       EXPECTED EFFECT/S       • orderly and appropriate promotion of the related tourism development from viewpoint of environmental conservation in the coastal area         6.       PROJECT COST       Rp. 2,658.3 million         6.1       INITIAL INVESTMENT COST       Rp. 1,393.5 million (2005-2008)         6.2.       OPERATION / MAINTENANCE       Rp. 192.0 million         7.       IMPLEMENTATION SCHEDULE       Short (2002 - 2005)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 - 2013)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         9.       RELATION WITH OTHER       - This project must be consistent with the project	1.	PRO	JECT TITLE	
3.       IMPLEMENTATION AGENCIES       Leading agency: Provincial Tourism Office Related agency: PICMO, KICMO, Municipal/Regency Tourism Offices         4.       OBJECTIVES       • to prepare environmentally friendly tourism improvement plan for promotion and control of tourism development by both public and private sectors         5.       EXPECTED EFFECT/S       • to promote coastal environmental conservation from tourism sector         6.       PROJECT COST       Rp. 2,658.3 million         6.1.       INITIAL INVESTMENT COST       Rp. 1,264.8 million (2005-2008)         6.2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         Short (2002 - 2005)       Rp. 192.0 million         Mid (2006 - 2010)       Rp. 670.5 million         7.       IMPLEMENTATION SCHEDULE         8.       PROJECT DESCRIPTION         8.       PROJECT DESCRIPTION         9.       RELATION WITH       OTHER				
Related       agency:       PICMO,       KICMO,         4.       OBJECTIVES       • to prepare environmentally friendly tourism improvement plan for promotion and control of tourism development by both public and private sectors       • to promote coastal environmental conservation from tourism sector         5.       EXPECTED EFFECT/S       • orderly and appropriate promotion of the related tourism development from viewpoint of environmental conservation in the coastal area         6.       PROJECT COST       Rp. 2,658.3 million         6.1       INITIAL INVESTMENT COST       Rp. 1,393.5 million (2005-2008)         6-2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         MAINTENANCE       Rp. 192.0 million         Mid (2006 - 2010)       Rp. 670.5 million         1       Long (2011 - 2015)       Rp. 402.3 million         7.       IMPLEMENTATION SCHEDULE       Short long term (2004 - 2013)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the propoced spatial use plan of the city of Manado.         -       to initiate establishment of the project implementation organizations for management of the develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.         9.       RELATION WITH OTHER       This project must be consistent with the project <td>2.</td> <td></td> <td></td> <td>Manado and Bunaken areas</td>	2.			Manado and Bunaken areas
4.       OBJECTIVES       • to prepare environmentally friendly tourism improvement plan for promotion and control of tourism development by both public and private sectors         5.       EXPECTED EFFECT/S       • orderly and appropriate promotion of the related tourism development from viewpoint of environmental conservation in the coastal area         6.       PROJECT COST       Rp. 2,658.3 million         6-1.       INITIAL INVESTMENT COST       Rp. 1,393.5 million (2005-2008)         6-2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         5.       Short (2002 - 2005)       Rp. 192.0 million         1.       Long (2011 - 2015)       Rp. 402.3 million         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 - 2013)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         8.       PROJECT DESCRIPTION       - to generate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the project implementation organizations for management of the development projects         9.       RELATION WITH OTHER       - This project must be consistent with the project	3.	IMPI	LEMENTATION AGENCIES	Leading agency: Provincial Tourism Office
4.       OBJECTIVES       • to prepare environmentally friendly tourism improvement plan for promotion and control of tourism development by both public and private sectors         5.       EXPECTED EFFECT/S       • to promote coastal environmental conservation from tourism sector         5.       EXPECTED EFFECT/S       • orderly and appropriate promotion of the related tourism development from viewpoint of environmental conservation in the coastal area         6.       PROJECT COST       Rp. 2,658.3 million         6-1.       INITIAL INVESTMENT COST       Rp. 1,393.5 million (2005-2008)         6-2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         Short (2002 - 2005)       Rp. 192.0 million         Mid (2006 - 2010)       Rp. 670.5 million         1. Long (2011 - 2015)       Rp. 402.3 million         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 - 2013)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.         9.       RELATION WITH OTHER       - This project must be consistent with the project				Related agency: PICMO, KICMO,
<ul> <li>improvement plan for promotion and control of tourism development by both public and private sectors</li> <li>to promote coastal environmental conservation from tourism sector</li> <li>EXPECTED EFFECT/S</li> <li>orderly and appropriate promotion of the related tourism development from viewpoint of environmental conservation in the coastal area</li> <li>PROJECT COST</li> <li>Rp. 2,658.3 million</li> <li>INITIAL INVESTMENT COST</li> <li>OPERATION / MAINTENANCE</li> <li>Short (2002 - 2005)</li> <li>Rp. 192.0 million</li> <li>Mol (2006 - 2010)</li> <li>Rp. 670.5 million</li> <li>Long (2011 - 2015)</li> <li>Rp. 402.3 million</li> <li>IMPLEMENTATION SCHEDULE</li> <li>Short to long term (2004 - 2013)</li> <li>PROJECT DESCRIPTION</li> <li>to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.</li> <li>to initiate establishment of the project implementation organizations for management of the development projects</li> <li>to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the project implementation of the project</li> <li>RELATION WITH OTHER</li> </ul>				
<ul> <li>improvement plan for promotion and control of tourism development by both public and private sectors</li> <li>to promote coastal environmental conservation from tourism sector</li> <li>EXPECTED EFFECT/S</li> <li>orderly and appropriate promotion of the related tourism development from viewpoint of environmental conservation in the coastal area</li> <li>PROJECT COST</li> <li>FROJECT COST</li> <li>PROJECT COST</li> <li>Antition (2005-2008)</li> <li>OPERATION / MAINTENANCE</li> <li>Short (2002 - 2005)</li> <li>Rp. 1,264.8 million (2004-2013)</li> <li>Short (2002 - 2005)</li> <li>Rp. 192.0 million</li> <li>Mid (2006 - 2010)</li> <li>Rp. 670.5 million</li> <li>Long (2011 - 2015)</li> <li>Rp. 402.3 million</li> <li>IMPLEMENTATION SCHEDULE</li> <li>Short to long term (2004 - 2013)</li> <li>PROJECT DESCRIPTION</li> <li>to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.</li> <li>to initiate establishment of the project implementation organizations for management of the development projects</li> <li>to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.</li> <li>RELATION WITH OTHER</li> </ul>	4.	OBJ	ECTIVES	• to prepare environmentally friendly tourism
5.       EXPECTED EFFECT/S       • to promote coastal environmental conservation from tourism sector         5.       EXPECTED EFFECT/S       • orderly and appropriate promotion of the related tourism development from viewpoint of environmental conservation in the coastal area         6.       PROJECT COST       Rp. 2,658.3 million         6-1.       INITIAL INVESTMENT COST       Rp. 1,393.5 million (2005-2008)         6-2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         6-2.       OPERATION / MAINTENANCE       Rp. 192.0 million         Mid (2006 - 2010)       Rp. 670.5 million       1004-2013)         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 - 2013)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 - 2013)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         9.       RELATION       WITH       OTHER       - This project must be consistent with the project				
Sectors       • to promote coastal environmental conservation from tourism sector         5.       EXPECTED EFFECT/S       • orderly and appropriate promotion of the related tourism development from viewpoint of environmental conservation in the coastal area         6.       PROJECT COST       Rp. 2,658.3 million         6-1.       INITIAL INVESTMENT COST       Rp. 1,393.5 million (2005-2008)         6-2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         6-2.       OPERATION / MAINTENANCE       Rp. 192.0 million         Mid (2006 - 2010)       Rp. 670.5 million       100         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 - 2013)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         6.       to initiate establishment of the project implementation organizations for management of the development projects         7.       RELATION       WITH OTHER         9.       RELATION       WITH OTHER				
5.       EXPECTED EFFECT/S       • orderly and appropriate promotion of the related tourism development from viewpoint of environmental conservation in the coastal area         6.       PROJECT COST       Rp. 2,658.3 million         6.1.       INITIAL INVESTMENT COST       Rp. 1,393.5 million (2005-2008)         6-2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         6-2.       OPERATION / MAINTENANCE       Rp. 192.0 million         Mid (2006 - 2010)       Rp. 670.5 million       1.ong (2011 - 2015)         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 - 2013)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         -       to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.         9.       RELATION WITH OTHER       - This project must be consistent with the project				
5.       EXPECTED EFFECT/S       • orderly and appropriate promotion of the related tourism development from viewpoint of environmental conservation in the coastal area         6.       PROJECT COST       Rp. 2,658.3 million         6.1.       INITIAL INVESTMENT COST       Rp. 1,393.5 million (2005-2008)         6-2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         6-2.       OPERATION / MAINTENANCE       Rp. 192.0 million         Mid (2006 - 2010)       Rp. 670.5 million       1.ong (2011 - 2015)         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 - 2013)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         -       to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.         9.       RELATION WITH OTHER       - This project must be consistent with the project				• to promote coastal environmental conservation from
6.       PROJECT COST       Rp. 2,658.3 million         6.       PROJECT COST       Rp. 2,658.3 million         6.1.       INITIAL INVESTMENT COST       Rp. 1,393.5 million (2005-2008)         6-2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         5hort (2002 - 2005)       Rp. 192.0 million         Mid (2006 - 2010)       Rp. 670.5 million         1.ong (2011 - 2015)       Rp. 402.3 million         7.       IMPLEMENTATION SCHEDULE         8.       PROJECT DESCRIPTION         9.       RELATION         9.       RELATION         WITH       OTHER				
6.       PROJECT COST       Rp. 2,658.3 million         6.       PROJECT COST       Rp. 2,658.3 million         6.1.       INITIAL INVESTMENT COST       Rp. 1,393.5 million (2005-2008)         6-2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         6-2.       OPERATION / MAINTENANCE       Rp. 192.0 million         5hort (2002 - 2005)       Rp. 192.0 million         Mid (2006 - 2010)       Rp. 670.5 million         1.ong (2011 - 2015)       Rp. 402.3 million         7.       IMPLEMENTATION SCHEDULE         Short to long term (2004 - 2013)       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         6.       PROJECT DESCRIPTION       - to initiate establishment of the project implementation organizations for management of the development projects         9.       RELATION       WITH OTHER       - This project must be consistent with the project	5.	EXP	ECTED EFFECT/S	• orderly and appropriate promotion of the related
6.       PROJECT COST       Rp. 2,658.3 million         6.       PROJECT COST       Rp. 1,393.5 million (2005-2008)         6-1.       INITIAL INVESTMENT COST       Rp. 1,264.8 million (2004-2013)         6-2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         Short (2002 - 2005)       Rp. 192.0 million         Mid (2006 - 2010)       Rp. 670.5 million         Long (2011 - 2015)       Rp. 402.3 million         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 - 2013)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         - to initiate establishment of the project implementation organizations for management of the development projects         - to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.         9.       RELATION WITH OTHER       - This project must be consistent with the project				
6.       PROJECT COST       Rp. 2,658.3 million         6-1.       INITIAL INVESTMENT COST       Rp. 1,393.5 million (2005-2008)         6-2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         5.2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         6.2.       OPERATION / MAINTENANCE       Rp. 192.0 million         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 - 2013)         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 - 2013)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         -       to initiate establishment of the project implementation organizations for management of the development projects         -       to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.         9.       RELATION       WITH OTHER       This project must be consistent with the project		· · .		
6-1.       INITIAL INVESTMENT COST       Rp. 1,393.5 million (2005-2008)         6-2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         Short (2002 - 2005)       Rp. 192.0 million         Mid (2006 - 2010)       Rp. 670.5 million         Iong (2011 - 2015)       Rp. 402.3 million         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 - 2013)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         -       to initiate establishment of the project implementation organizations for management of the development projects         -       to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.         9.       RELATION WITH OTHER       - This project must be consistent with the project	6.	PRO	JECT COST	
COST       Rp. 1,393.5 million (2005-2008)         6-2.       OPERATION / MAINTENANCE       Rp. 1,264.8 million (2004-2013)         Short (2002 - 2005)       Rp. 192.0 million         Mid (2006 - 2010)       Rp. 670.5 million         Long (2011 - 2015)       Rp. 402.3 million         7.       IMPLEMENTATION SCHEDULE         Short to long term (2004 - 2013)         8.       PROJECT DESCRIPTION         - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         - to initiate establishment of the project implementation organizations for management of the development projects         - to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.         9.       RELATION WITH OTHER			······································	
MAINTENANCE       Rp. 1,264.8 million (2004-2013)         Short (2002 - 2005)       Rp. 192.0 million         Mid (2006 - 2010)       Rp. 670.5 million         Long (2011 - 2015)       Rp. 402.3 million         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 - 2013)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         - to initiate establishment of the project implementation organizations for management of the development projects         - to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.         9.       RELATION WITH OTHER				Rp. 1,393.5 million (2005-2008)
MAINTENAINCE       Short (2002 - 2005)       Rp. 192.0 million         Mid (2006 - 2010)       Rp. 670.5 million         Long (2011 - 2015)       Rp. 402.3 million         7.       IMPLEMENTATION SCHEDULE       Short to long term (2004 - 2013)         8.       PROJECT DESCRIPTION       - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.         - to initiate establishment of the project implementation organizations for management of the development projects         - to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.         9.       RELATION WITH OTHER		6-2.	OPERATION /	D 1 2(10, 111; (2004 2012)
Mid (2006 - 2010)Rp. 670.5 millionLong (2011 - 2015)Rp. 402.3 million7.IMPLEMENTATION SCHEDULEShort to long term (2004 - 2013)8.PROJECT DESCRIPTION- to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado. - to initiate establishment of the project implementation organizations for management of the development projects - to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.9.RELATION WITH OTHER- This project must be consistent with the project		1 .	MAINTENANCE	Kp. 1,204.8 million (2004-2013)
Long (2011 - 2015)Rp. 402.3 million7.IMPLEMENTATION SCHEDULEShort to long term (2004 - 2013)8.PROJECT DESCRIPTION- to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado. - to initiate establishment of the project implementation organizations for management of the development projects - to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.9.RELATIONWITHOTHER			Short (2002 - 2005)	Rp. 192.0 million
<ul> <li>7. IMPLEMENTATION SCHEDULE Short to long term (2004 - 2013)</li> <li>8. PROJECT DESCRIPTION - to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.</li> <li>- to initiate establishment of the project implementation organizations for management of the development projects</li> <li>- to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.</li> <li>9. RELATION WITH OTHER - This project must be consistent with the project</li> </ul>			Mid (2006 - 2010)	Rp. 670.5 million
<ul> <li>8. PROJECT DESCRIPTION         <ul> <li>to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.</li> <li>to initiate establishment of the project implementation organizations for management of the development projects</li> <li>to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.</li> </ul> </li> <li>9. RELATION WITH OTHER - This project must be consistent with the project</li> </ul>		1 2	Long (2011 – 2015)	Rp. 402.3 million
<ul> <li>8. PROJECT DESCRIPTION         <ul> <li>to prepare environmentally friendly improvement plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.</li> <li>to initiate establishment of the project implementation organizations for management of the development projects</li> <li>to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.</li> </ul> </li> <li>9. RELATION WITH OTHER - This project must be consistent with the project</li> </ul>	7.	IMP	LEMENTATION SCHEDULE	Short to long term (2004 – 2013)
<ul> <li>plan for the tourism development in conformity with the proposed spatial use plan of the city of Manado.</li> <li>to initiate establishment of the project implementation organizations for management of the development projects</li> <li>to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.</li> <li>9. RELATION WITH OTHER - This project must be consistent with the project</li> </ul>	8.	PRO	JECT DESCRIPTION	
<ul> <li>to initiate establishment of the project implementation organizations for management of the development projects</li> <li>to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.</li> <li>9. RELATION WITH OTHER - This project must be consistent with the project</li> </ul>				
<ul> <li>implementation organizations for management of the development projects</li> <li>to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.</li> <li>RELATION WITH OTHER - This project must be consistent with the project</li> </ul>				the proposed spatial use plan of the city of Manado.
9.       RELATION       WITH       OTHER       -       This project must be consistent with the project				
9.       RELATION       WITH       OTHER       -       This project must be consistent with the project				implementation organizations for management of
<ul> <li>to develop and operate tourism service facilities, such as visitor center, promenade, etc. with the cooperation of the private sector.</li> <li>RELATION WITH OTHER - This project must be consistent with the project</li> </ul>				
cooperation of the private sector.           9. RELATION WITH OTHER         - This project must be consistent with the project			1	
9. RELATION WITH OTHER - This project must be consistent with the project				such as visitor center, promenade, etc. with the
				cooperation of the private sector.
PROJECT/S MS-1.	9.	REL	ATION WITH OTHER	- This project must be consistent with the project
	L	PRO	JECT/S	MS-1.

### Initial Cost

(b) A set of the se	the second second second	and the second second	and the second	and the second
Items	Unit Cost	Quantity	Sub-Total	Remark
Study & Design				
Detailed design			Rp.73.5 mil.	7% of construction cost
Construction of facilities & struc	lures			
Visitor center	Rp.3 mil.	300 m <sup>2</sup>	Rp.900 mil.	
Parking area	Rp.0.3 mil	500 m <sup>2</sup>	Rp.150 mil.	
Equipment				
			Rp.270 mil.	30% of construction cost of visitor center
		Total	Rp.1,393.5 mil.	

	Items	Unit Cost	Quantity	Sub-Total	Remark
Con	struction of facilities & struct	ures	a fui e com	e e a la composición de la composición	te de la company de la comp
	Visitor center	Rp.27 mil.	8 years	Rp.216 mil.	3% of construction cost /year
1	Parking area	Rp.3 mil.	8 years	Rp.24 mil.	2% of construction cost /year
Equi	pment			g a frask fære i l	
		Rp.8.1 mil	8 years	Rp.64.8 mil.	3 % of Initial equipment/year
Pers	onnel cost		a ta dan sa	e de la sur de la serie de	
		Rp.0.8mil,	10 staff	Rp.960 mil.	and the second s
			x12months		
	<ul> <li>Association of the second state</li> </ul>	· ·	x10 years		
		the sector	Total	Rp.1,264.8 mil.	

### Project No. DT-3

		lo. <u>DT-3</u>			
1.	PROJECT TITLE		Development of Trekking and Cycling Roads in Manado Tua Island		
2.	LOC	ATION	Manado Tua Island, City of Manado		
3.			Leading agency: PICMO, Tourism Office and other agencies concerned Related agency: KICMOs, Tourism Offices, and other agencies concerned		
<u> </u>			Private: Tourism operators and villagers		
4.	OBJI	ECTIVES	<ul> <li>to develop the infrastructure for the eco-tourism and living environmental development, including water supply, jetty, circular road and trekking road</li> <li>to support the economic activities of the villagers.</li> </ul>		
5.	EXP	ECTED EFFECT/S	• improvement of the living environment and creation		
		and the second	of eco-tourism areas		
6	PRO	JECT COST	Rp. 21,912.5 million		
	6-1.	INITIAL INVESTMENT COST	Rp. 18,231.5 million (2004)		
	6-2.	OPERATION / MAINTENANCE	Rp. 3,681.0 million (2004-2015)		
		Short (2002 - 2005)	Rp. 2,487.0 million		
l .	1	Mid (2006 - 2010)	Rp. 570.0 million		
].		Long (2011- 2015)	Rp. 624.0 million		
7.	IMPI	LEMENTATION SCHEDULE	Short to long term (2004 – 2015)		
8.	PRO	JECT DESCRIPTION	<ul> <li>to study and design the eco-tourism development of the Manado Tua Island by the consultant</li> <li>to implement the infrastructure system of the island by the public sector (mainly by Manado City)</li> <li>to implement private tourist service facilities such as home stay, here the sector and set and set as a set of the sector.</li> </ul>		
			<ul> <li>home-stay, beach houses and rent-cycle shops by the villagers.</li> <li>to promote and operate the tourism facilities and maintain the infrastructure.</li> </ul>		
9.	· ·	ATION WITH OTHER JECT/S	The location of the facilities, especially jetty should be carefully selected according to the zoning system of the Bunaken National Park		

### Initial Cost

	Items	Unit Cost	Quantity	Sub-Total	Remark
Stud	y & Design	·	L	I	· · · · · · · · · · · · · · · · · · ·
[	Planning, Detailed Design		-	Rp.1,102.5 mil.	7% of construction cost
Cons	struction of facilities & struct	ures			· · · · · ·
[	Circular road	Rp.1 bil.	9 km	Rp.9,000 mil.	
	Nature trail	Rp.200mil	10 km	Rp.2,000 mil.	
	Sanitary facilities	Rp.3 mil.	20 m <sup>2</sup>	Rp. 300 mil.	
			5 units		4
	Pier	Rp.3000 mil.	1	Rp.3,000 mil.	
	Home-stay houses	Rp.2.5mil.	100 m <sup>2</sup>	Rp.1,250 mil.	Maria Alexandria
			5 units		
	Beach rest house	Rp.2 mil.	20 m <sup>2</sup> 5 units	Rp. 200 mil.	
Equi	pment			and the second second	
	Rent cycling service	Rp.0.8mil,	30 sets	Rp.24 mil.	
	Sanitary facilities, Pier, Home-stay house, Beach			Rp.1,355 mil.	3% of Sanitary facilities, 29
	rest house				of Pier, 5% of Home-stay house, 2% of Beach rest house
	a di ana	••••••••••••••••••••••••••••••••••••••	Total	Rp.18,231.5 mil.	

1. T	Items	Unit Cost	Quantity	Sub-Total	Remark
Cons	struction of facilities & struct	ures			
				Rp.2,284 mil.	1% of Nature trail, 2% of
					Circular road, Sanitary facilities, Pier, Home-stay
					house, 3% of Beach rest house
Equi	pment			1	
				Rp.203 mil.	1% of Pier, 3% of Sanitary
			-		facilities, Home stay house, Beach rest house, Bicycle for
		L			rent
Pers	onnel cost				the second states of the states of the
	Pier, Bicycle rental service	Rp.0.5mil.	3 persons	Rp.90 mil.	2006-2010
			x12months x 5 years		
	Home stay house, Beach	Rp.0.8mil	10 persons	Rp.480 mil.	2006-2010
:	rest house	-	x12months x 5 years		
	Pier, Bicycle rental	Rp.0.8mil	13 persons	Rp.624 mil.	2011-2015
	service, Home-stay house, Beach rest house		x12months x 5 years		
		·	Total	Rp.3,681 mil.	

### Project No. LE-1

1	PROJECT TITLE	Sanitation Facilities Development Project in the
1.	PROJECT III EE	Rural Coastal Area
2.	LOCATION	All rural coastal communities in the Study Area
1	IMPLEMENTATION AGENCIES	
3.	IMPLEMENTATION AGENCIES	Leading Agencies: PICMO or BAPELITBANG,
		KIMPRASWIL and Ministry of Health
		Related Agency: KICMO, or BAPPEDA/BAPPEKO,
1 1		and other related Municipal/Regency agencies,
		District: Development and Env. Section of PMD
	n an	Village: Management groups and community people
4.	OBJECTIVES	• to improve coastal environmental condition by
		reducing water pollution load of human waste in the
		rural coastal communities
5.	EXPECTED EFFECT/S	• mitigation of pollution load from the human wastes
	n de la companya de En la companya de la c	in the coastal areas
6.	PROJECT COST	Rp. 4,290.0 million
	6-1. INITIAL INVESTMENT	
	COST	Rp. 4,290.0 million (2003-2015)
	6-2. OPERATION /	· · · · · · · · · · · · · · · · · · ·
:	MAINTENANCE	None
7.	IMPLEMENTATION SCHEDULE	2003 - 2015
8.	PROJECT DESCRIPTION	Short to Mid term
		1. In 46 priority communities, community formulate
		sanitation improvement project in their master
		plan
		2. In 46 priority communities, community formulate
		sanitation improvement management groups
		3. In 46 priority communities, people participate in
	· · ·	the construction of toilets which do not use coral
		rocks
		4. In 46 priority communities, people set up
		a. In 40 priority communities, people set up maintenance system
		Long term
		1. In second priority communities (54), sanitation
		facilities are established using the same procedure
9.	DEL ATION WITH OTHER	as the priority communities'.
<u>у</u> .	RELATION WITH OTHER	Project MW 2 is the same project as this one, although
	PROJECT/S	they have different codes.
		The third priority communities of 79 communities will
		be covered by a different or extended project after the
		year 2015.

Initial Cost

Items	Unit Cost	Quantity	Sub-Total	Remark
Study & Design				I Romark
Survey on people's		X 100	Rp. 1,800 mil.	
awareness & design of the		villages		
construction sites		Ŭ		
Construction of facilities & struct	ures			<u> </u>
Community toilets	Rp. 4 mil.	5 units x	Rp. 2,000 mil.	
	ан. Ал	100		
		villages		
Printing				
		X 100	Rp. 40 mil.	
		villages		
Seminar & Meeting			and a state of a second	
		X 100	Rp. 200 mil.	
		villages		
Transportation	<u> </u>			
		X 100	Rp. 250 mil.	
	L	villages	L	
Others				
and the second second second second second	1911 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 - 1917 -	Total	4,290.0 mil.	

1.	PROJECT TITLE	Master Plan and Feasibility Study for
		Improvement of Water Supply and Other Social
		Infrastructure in Small Islands and Remote Areas
2.	LOCATION	Coastal communities in the small islands and remote
		areas in the Study Area
3.	IMPLEMENTATION AGENCIES	Leading Agency: PICMO or BAPELITBANG,
-		KIMPRASWIL and Ministry of Health
		Related Agency: KICMO, or BAPPEDA/BAPPEKO,
		and other related Municipal/Regency agencies
		District: Development and Env. Section of PMD
		Village: Management groups and community people
		a mago, management groups and community people
4.	OBJECTIVES	• to formulate a moster plan for improvement f
4.		• to formulate a master plan for improvement of water
		supply and other social infrastructure in small island
		communities and rural areas by establishing new
		facilities and/or networking
ļ		
5.	EXPECTED EFFECT/S	• improvement of the quality of life in the small island
		communities and remote areas
6.	PROJECT COST	Rp. 100.0 million
	6-1. INITIAL INVESTMENT	Rp. 100.0 million (2005)
	COST	(2003)
1	6-2. OPERATION /	News
. **	MAINTENANCE	None
7.	IMPLEMENTATION SCHEDULE	Short term 2005
8.	PROJECT DESCRIPTION	1. Survey on water resources in small islands and
		remote areas
1.		2. Study on maintenance system by communities
		3. Identify key place in a networking
		4. Master planning
		5. Feasibility Study
9.	RELATION WITH OTHER	Project SE4 and SE3 should be implemented together
2.	PROJECT/S	with this project.
	11001001/0	

### Project No. LE2

### Initial Cost

1.1	Items	Unit Cost	Quantity	Sub-Total	Remark
Stud	y & Design	an an an an thair			
	Study on situation analysis	Rp. 100		Rp. 100 mil.	······································
	of water resources	mil.			
	Design networking for				
· ·	social infrastructure				
	among small islands				
			Total	Rp. 100 mil.	