# **APPENDIX -7**

# NATURAL CONDITIONS IN THE PRIORITY ZONES

- 7-1 BIMA PRIORITY ZONE
- 7-2 DOMPU PRIORITY ZONE
- 7-3 EASTERN FLORES PRIORITY ZONE
- 7-4 CENTRAL FLORES PRIORITY ZONE

## 1. Bima Area

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រដព	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
16	19	17	18	3	3	1	1	0	5	10	19
136	132	172	140	32	33	9	9	43	76	242	240
228	261	201	341	20	21	7	3	1	33	117	265
26.8	26.7	27.9	26.7	25.8	25.5	25.4	25.8	26.8	28.1	27.4	27.9
23.5	23.1	23.2	22.6	20.0	19.1	18.5	19.3	21.3	23.7	24.0	24.0
32.2	32.0	32.1	32.5	32.2	32.0	31.9	33.1	34.4	35.3	32.8	33.3
88	84	86	86	81	80	76	73	73	75	82	83
1	2	2	2	4	4	5	5	5	4	3	2
9	9	9	10	13	12	14	14	15	14	11	11
N/S	N	N/S	S	S	S	S	S	S	S	S	N/W
	16 136 228 26.8 23.5 32.2 88 1 9	16         19           136         132           228         261           26.8         26.7           23.5         23.1           32.2         32.0           88         84           1         2           9         9	16         19         17           136         132         172           228         261         201           26.8         26.7         27.9           23.5         23.1         23.2           32.2         32.0         32.1           88         84         86           1         2         2           9         9         9	16         19         17         18           136         132         172         140           228         261         201         341           26.8         26.7         27.9         26.7           23.5         23.1         23.2         22.6           32.2         32.0         32.1         32.5           88         84         86         86           1         2         2         2           9         9         9         10	16         19         17         18         3           136         132         172         140         32           228         261         201         341         20           26.8         26.7         27.9         26.7         25.8           23.5         23.1         23.2         22.6         20.0           32.2         32.0         32.1         32.5         32.2           88         84         86         86         81           1         2         2         2         4           9         9         9         10         13	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	16         19         17         18         3         3         1           136         132         172         140         32         33         9           228         261         201         341         20         21         7           26.8         26.7         27.9         26.7         25.8         25.5         25.4           23.5         23.1         23.2         22.6         20.0         19.1         18.5           32.2         32.0         32.1         32.5         32.2         32.0         31.9           88         84         86         86         81         80         76           1         2         2         2         4         4         5           9         9         9         10         13         12         14	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Table 7.1.1Monthly Climate in Bima, 1999

Source: DARAM ANGKA in BIMA 1999

### Table 7.1.2Average Number of Rainy Days in Bima, 1999

1401C 7.1.2	Average runnoer of Runny Days in Dinna, 1777												
Kecamatan	Jan	Feb	Mar	Арт	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Monta	15	15	16	16	8	5	3	2	5	4	22	21	132
Bolo	11	11	9	16	2	3	4	7	4	5	21	14	107
Woha	15	13	9	12	6	6	-	-	4	11	20	21	117
Belo	10	10	14	16	-	-	1	1	3	10	19	13	97
Wawo	6	10	17	12	3	9	-	-	5	6	17	17	102
Sape	9	8	4	4	ł	2	-	-	-	2	6	15	51
Wега	6	5	9	7	-	•	-	-	-	4	9	15	55
Rasanae Timur	15	23	15	21	5	5	2	2	8	19	26	20	161
Rasanac Barat	-	~	-	-	-	-	-	-	-	-	-	-	-
Sanggar	19	9	10	15	3	5	3	4	2	7	17	13	107
Donngo	11	12	16	15	3	5	-	-	5	20	27	22	136
Average	11.7	11.6	11.9	13.4	3.1	4.0	1.3	1.6	3.6	8.8	18.4	17.1	107

Source: DARAM ANGKA in BIMA 1999

### Table 7.1.3Average Number of rain Fall in Bima, 1999

Kecamatan	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Monta	203	66	190	181	29	18	26	27	45	27	286	247	1,345
Bolo	126	133	148	156	15	33	29	29	37	64	180	129	1,079
Woha	319	264	180	53	118	37	-	-	103	104	345	415	1,938
Belo	119	117	182	167		-	3	3	_ 75	126	256	125	1,173
Wawo	72	121	439	174	60	73	-	-	40	113	332	470	1,894
Sape	119	125	30	79	20	9	-	-	-	15	27	214	638
Wera	92	41	90	119		-	-	7	-	25	24	282	680
Rasanae Timur	197	353	337	292	55	84			94	196	726	396	2,730
Rasanae Barat	-	-	-	-	-	-	-	-	-	-	-	-	-
Sanggar	97	72	103	153	23	48	34	34	17	42	189	91	903
Donngo	14	28	19	21	3	15	-	-	15	53	59	29	256
Average	136	132	172	140	32	33	9	9	43	76	242	240	1,264

Source: DARAM ANGKA in BIMA 1999

### 2. Dompu Area

								• •					
Kecamatan	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Hu'u	20	24	18	22	-	-		~	-	7	15	20	126
Dompu	15	19	17	16	-	~	-	-	-	10	13	14	104
Kempo	26	20	22	21	-	-	-	-	-	9	2	18	118
Kilo	25	25	24	23	-	-	-	-	-	7	11	19	134
Woja	14	18	17	16		~	-	-	3	10	5	13	96_
Average	20.0	21.2	19.6	19.6	0	0	0	0	0.6	8.6	9.2	16,8	116

 Table 7.2.1
 Average Number of Rainy Days in Dompu, 1999

Source: DARAM ANGKA in DOMPU 1999

<b>Table 7.2.2</b>	Average Number of Rain Fall, 1999

Kecanatan	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Hu'u	247	243	569	115	-	-	-		- -	151	304	304	1,933
Dompu	239	187	210	183		-			-	190	219	262	1,490
Kempo	242	290	253	190		-	-	-	-	118	15	150	1,258
Kilo	162	183	228	207	• -	-	-	-	-	92	157	200	1,229
Woja	215	155	182	146	-	-	-	-	20	165	33	245	1,261
Average	221	212	288	168	0	0	0	0	4	143	146	232	1,414

Source: DARAM ANGKA in DOMPU 1999

Table 7.2.3	Average Number	of Rain	Fall	Last 5	Years

Kecamatan	1995	1996	1997	1998	1999	Average
Hu'u	83	105	69	181	282	144
Dompu	75	107	41	175	213	122
Kempo	49	56	40	143	180	94
Kilo	34	56	42	119	176	85
Woja	-	•	-	181	145	65
Average	60	81	48	160	199	102

Source: DARAM ANGKA in DOMPU 1999

## 3. East Flores Area

		<u>.</u>				•							
Kecamatan	Jan	Feb	Мат	Apı	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Wulan Gitang	17	24	23	22	0	3	-	0	0	8	13	22	143
Tanjung Bunga	17	24	17	7	2	3	0	1	0	2	11	-	84
Larantuka	17	23	16	6	1	3	1	0	0	5	10	21	103
Solor Barat	19	22	14	7	0	-	0	0	0	2	8	17	89
Solor Timur	21	22	13	16	2	0	0	0	0	7	9	23	113
Adonara Barat	20	17	12	8	l	3	0	0	0	3	3	13	80
Adonara Timur	18	19	16	11	1	0	0	1	0	5	7	16	94
Average	19.9	21.6	15.9	11.0	1.0	11.0	0.3	0.3	0	4.6	8.7	16.0	100.9

Table 7.3.1Average Number of Rainy Days in East Flores, 1999

Source: DARAM ANGKA in FLORES TIMUR 1999

# Table 7.3.2 Average Number of Rain Fall in East Flores, 1999

Kecamatan	Jan	Feb	Mar	Арг	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Wulan Gitang	491	472	500	424	0	14	10	0	0	126	219	431	2,687
Tanjung Bunga	339	473	265	148	13	20	0	0	0	28	165	•	1,451,
Larantuka	389	674	132	211	23	24	4	0	0	20	92	409	1,978
Solor Barat	135	173	155	82	0	0	0	0	0	24	24	204	797
Solor Timur	158	208	93	189	2	0	0	3	0	28	35	259	975
Adonara Barat	247	183	142	137	16	55	0	0	0	42	47	186	1,055
Adonara Timur	231	296	204	1.99	23	0	0	4	0	52	123	158	1,290
Average	284	354	213	199	11	16	2	1	0	46	101	235	1,462

Source: DARAM ANGKA in FLORES TIMUR 1999

## Table 7.3.3 Average Number of Rainy Days in Lembata,

Kecamatan	Jan	Feb	Маг	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Nagawutun	9	8	10	5	3	1	-	-	2	6	8	9	61
Atadei	10	15	12	5	4	2	1	3	2	4	6	9	73
Ile Ape	5	12	9	2	~	1	1	2	3	4	3	8	50
Lebatukan	6	12	13	3	3	2	ł	1	1	4	8	9	63
Nubatukan	8	15	13	4	1	3	1	2	1	5	9	6	68
Omesuri	12	15	12	4	2	1	1	í	-	5	6	8	67
Buyasuri	14	14	13	4	3	2		3	1	4	4	6	68
Average	9.1	13.0	11.7	3.9	2.9	1.7	0.7	1.7	1.4	4.6	6.3	7.9	64.3

Source: DARAM ANGKA in LEMBATA 1999

### Table 7.3.4 Average Number of Rain Fall in lembata,

Kecamatan	Jan	Feb	Маг	Apr	May	Јил	Jul	Aug	Sep	Oct	Nov	Dec	Total
Nagbawutun	142	116	318	89	67	8	-	-	12	199	121	126	1,198
Atadei	156	186	246	78	59	9	11	10	3	97	111	121	1,087
Ile Ape	115	142	141	24		6	4	8	3	47	52	83	625
Lebatukan	112	181	214	57	34	8	3	3	-	34	85	97	828
Nubatukan	140	170	201	74	16	11	6	7	6	61	99	103	894
Omesuri	167	176	198	68	28	21	15	8	3	71	81	91	927
Buyasuri	194	164	217	65	37	37	•	10	4	62	71	89	950
Average	147	162	219	65	34	14	6	7	4	82	89	101	930

Source: DARAM ANGKA in LEMBATA 1999

## 4. Central Flores Area

Item	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rainy days	21.9	17.1	13.2	9.1	2.5	4.0		1.0		5.0	8.6	17.3
Rain fall (mm)	337	394	222	90	6	24	•	4	-	66	127	342
Ave Temp. ()	26.7	26,2	26.8	27.2	26.5	26,5	26.0	26.3	27.0	28.4	28.4	27.3
Min. Temp. ( )	23.3	22.7	22.8	21.8	21.4	20.8	19.8	20.0	20.0	22.6	23.8	23.2
Max. Temp. ( )	31.6	31.0	32.0	32.8	32.6	33.0	34.0	34.0	34.8	35.6	34.2	33.1
Humidity (%)	87	89	86	82	73	74	69	70	71	71	76	84
Max. wind speed (m/s)	15	18	15	12	16	16	15	14	15	16	18	18
Wind direction	calm	calm	calm	cCal m	SW	SW	S	sw	s	sw	calm	calm

Table 7.4.1 Monthly Climate in Sikka, 1999

Source: DARAM ANGKA in SIKKA 1999

 Table 7.4.2
 Average Number of Rainy Days in Sikka, 1999

Kecamatan	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Paga	16	9	11	8			-	-	-	3	6	16	69
ledalero	17	19	14	7	-	-	-	~	-	6	77	15	85
Magepanda	13	16	15	3	_	-		-	-	4	6	11	68
Maumere	7	17	9	5	-	3	-	-	-	3	5	11	60
Lela	26	20	20	21	3	7	-	1	-	9	13	24	. 144
Habi	24	21	15	15	-	-	-	-	-	4	13	26	118
Ogalidi	31	16	14	٣	-	-	-	-		10	6	19	96
Waigete	46	21	14	8	2	-	-	-	-	1	8	14	114
Patiahu	17	15	7	6	-	2	-	-	-	5	13	20	85
Average	21.9	17.1	13.2	9.1	2.5	4.0		1.0	-	5.0	8.6	17.3	93.2

Source: DARAM ANGKA in SIKKA 1999

 Table 7.4.3
 Average Number of Rainy Days in Sikka, 1999

Kecamatan	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Νον	Dec	Total
Paga	583	460	412	117		-	-	-	-	36	168	719	2,495
Iedalero	430	301	273	83	_	-	-	-		33	171	432	1,723
Magepanda	272	134	80	2	~	-		-	-	0	114	144	746
Maumere	131	298	165	57	-	8	-	-	-	36	52	217	964
Lela	292	995	364	123	1	59	-	4	-	89	147	314	2,388
Habi	337	283	193	46	-	8	-	-	-	23	60	214	1,164
Ogalidi	244	218	151	161	-	-	-	-	-	358	83	379	1,594
Waigete	257	361	227	187	10	-	-	-	-	16	84	127	1,269
Patiahu	486	500	134	37		20	-	-	-	0	267	536	1,980
Average	337	394	222	90	6	24	-	4	-	66	127	342	1,591

Source: DARAM ANGKA in SIKKA 1999

Item	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Νον	Dec
Ave. Temp. ( )	28.5	28.4	28.1	28.4	27.0	26.8	26.8	26.0	27.2	28.2	28.6	28.9
Min. Temp. ( )	24.0	24.5	24,0	24.5	21.5	23.0	23.0	21.0	22.0	24.0	24.5	25.0
Max. Temp. ( )	32.0	32.0	32.0	33.0	30.5	30.0	30.0	30.0	31.0	32.0	31.5	33.0
Humidity (%)	88.3	86.0	89.6	87.1	84.1	85.1	82.5	82.9	83.6	85.3	87.4	86.5
Wind speed (m/s)	4	1-4	-	1-2	2-5	2.5	3-4	2-4	2-4	2		-

 Table 7.4.4
 Monthly Climate in Ende, 1999

Source: DARAM ANGKA in ENDE 1999

 Table 7.4.5
 Average Number of Rainy Days in Ende, 1999

ecamatan	Jan	Feb	Mar	Арг	May	ไบท	Jul	Aug	Sep	Oct	Nov	Dec	Total
Nangapanda	17	21	19	7	-	5	-	1	-	9	4	23	106
Ende	•	*	-	-	•	-	-	-	-	-	-	-	-
Ende Selatan	18	16	18	8	-	3	-	3	3	4	14	16	103
Ndona	14	12	18	11	_	5		2	-	1	13	18	94
Wolowaru	19	19	16	17	-	8	-	-	_	10	19	20	128
Maurole	30	15	13	14	-	3		2	-	11	14	22	124
Detusoko	25	23	20	14	-	5		2	1	4	3	22	119
Average	20.5	17.7	17.3	10.1	_	4.8	-	1.7	0.7	6.5	11.2	20.2	112

Source: DARAM ANGKA in ENDE 1999

Table 7.4.6	Average Number of Rain Fa	all in Ende,

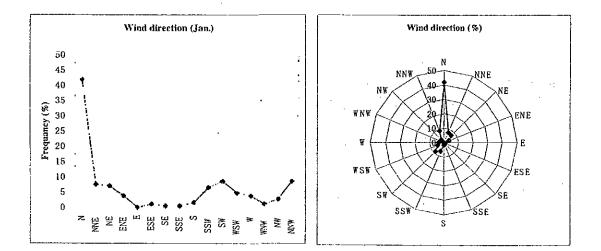
Kecamatan	Jan	Feb	Мат	Apr	May		Jul	Aug	Sep	Oct	Nov	Dec	_Total
Nangapanda	268	315	206	86		46	-	4	-	112	46	205	1,287
Ende	•	-	_	-	-	-	-	-	-		-	-	-
Ende Selatan	222	164	216	96	-	8	~	4	18	27	99	533	1,387
Ndona	115	80	353	413	-	6	-	7	-	2	570	249	1,296
Wolowaru	251	192	244	257	~	49			•	128	375	194	1,690
Maurole	468	202	275	110	-	6	-	76	-	147	131	319	1,734
Detusoko	544	311	213	242	-	25		23		101	203	501	2,090
Average	311	211	251	201	-	23	-	19	3	86	209	334	1,581

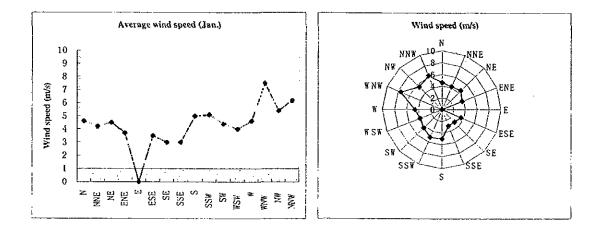
Source: DARAM ANGKA in ENDE 1999

 Table 7-4-7

 MONTHLY WIND DATA at MAEMERE AIRPORT (1995-2000) -January 

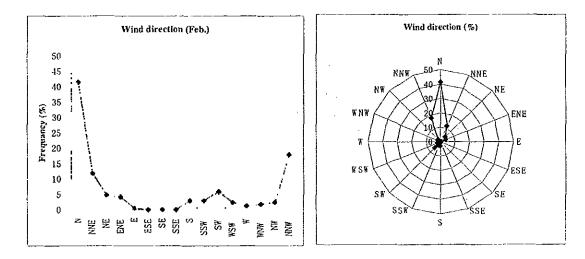
SUM,Jan	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338	
	Ν	NNE	NE	ENE	Е	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
0.4.1	0	0	0	0	0	0	0	0	0	Û	0	0	0	0	0	0	
1.4.2	0	0	0	0	0	0	0	0	0	0	0	Ó	0	0	0	0	
2 • 7 • 3	0	1	0	0	0	0	0	0	0	Û	0	0	0	0	0	0	
3•7•4	27	4	3	4	0	1	1	1	0	2	6	2	4	0	1	0	
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9 • V • 10	4	0	0	0	0	0	0	0	0	Ó	0	0	0	0	0	0	
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11 • 🗸 • 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12 • V • 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 • V • 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
																	ł
Total	78	14	13	7	0	2	I	1	3	12	16	9	7	2	5	16	186
Wind speed	5	4	5	4	0	4	3	3	5	5	4	4	5	8	5	6	
Ratio	42	8	7	4	0	1	1	1	2	7	9	5	4	1	3	9	100





SUM,Feb	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
0 • 4 • 1•	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1• • • 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Í
2 • ¥ • 3	2	0	0	0	0	0	0	0	0	0	0	0	0	Ó	0	0	ļ .
3 • <b>V • 4</b>	20	10	3	4	1	0	0	0	1	1	2	1	2	2	1	1	
4 • V • 9	19	5	3	3	0	0	0	0	2	<u> </u>	4	1	0	<u> </u>	0	6	
5 • <b>V • 6</b>	5	3	1	0	0	0	0	0	2	1	1	1	0	0	0	9	
6 • 1 • 7	11	0	0	Ō	0	<u>[</u> 0	0	0	0	1	3	0	0	0	1	1	1
7 <b>' V ' 8</b> '	2	0	0	0	0	0	0	0	Ö	1	0	0	0	0	1	<u> </u>	ĺ –
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•D • V • 11	0	0	0	Ö	0	0	0	0	0	0	0	0	0	0	0	0	
11 • 1 • 12	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
12 ° V • 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 • V • 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
								· ·		[				L		[]	
Total	70	20	8	7	1	0	0	0	5	5	10	4	2	3	4	30	10
Wind speed	5	4	4	3	3	0	0	0	4	5	5	6	3	3	6	5	
Ratio	41	12	5	4	I	0	0	0	3	3	6	2	1	2	2	18	10

Table 7-4-8	
MONTHLY WIND DATA at MAEMERE AIRPORT (1995-2000) -February-	



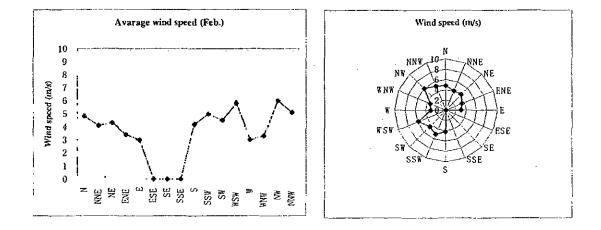
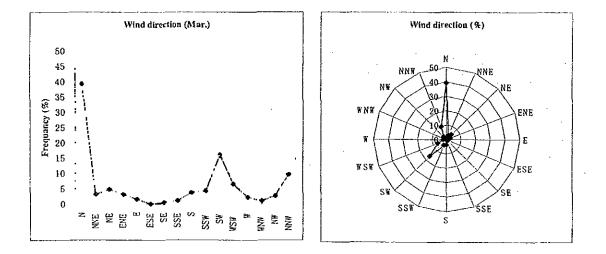
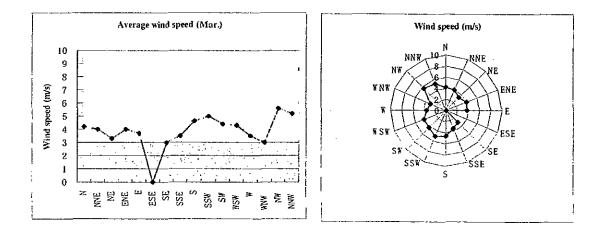


 Table 7-4-9

 MONTHLY WIND DATA at MAEMERE AIRPORT (1995-2000) -March 

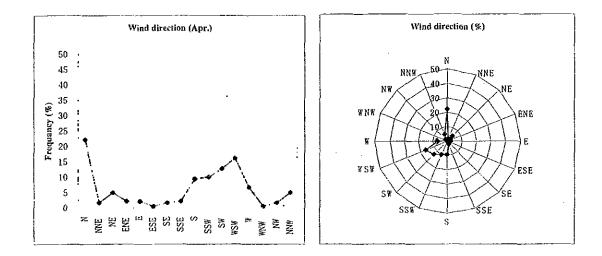
SUM,Mar	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SS₩	SW	WSW	W	WNW	NW	NNW	
0 • V • ۴	0	0	0	0	0	0	0	Ó	0	Ö	0	0	0	0	0	0	
1• * • 2	0	0	0	0	Ó	0	0	0	0	0	0	0	0	0	Ó	0	
2 V 3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	ĺ
3 V 4	29	2	7	1	2	0	1	1	1	1	8	1	2	2	1	5	
4 • <b>V • 5</b>	25	2	0	4	0	0	0	1	2	2	9	7	2	0	2	4	
5•V•Ø	7	2	0	1	1	0	0	0	3	3	7	3	Û	0	0	3	
6 · V · 7	4	0	0	0	0	0	Ó	0		1	6	1	0	0	0	2	
7 • V • 8	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
8	4	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	
9 V 10	1	0	0	0	0	Ó	0	0	0	0	0	0	0	0	1	2	
11 · V · G·	0	0	0	0	Ó	0	0	0	0	Ó	0	0	0	0	0		
11 • V • 12	0	0	0	0	Ö	0	0	. 0	0	0	0	0	0	0	0	0	
12 · V · 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	r
13 • V • 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
										[							
Total	73	6	9	6	3	0	1	2	7	8	30	12	4	2	5	18	186
Wind speed	4	4	3	4	4	0	3	4	5	5	4	4	4	3	6	5	
Ratio	39	3	5	3	2	0	1	1	4	4	16	7	2	1	3	10	100

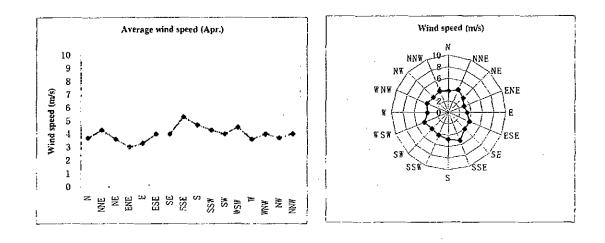




# Table 7-4-10 MONTHLY WIND DATA at MAEMERE AIRPORT (1995-2000) - April

SUM,Apr	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	<u>₩</u>	WNW	NW	NNW	
0•¥•ŀ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	,
1 V 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2 V 3	4	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	İ
3 V 4	18	0	- 4	4	2	0	0	0	2	4	6	7	7	0	2	4	
4 • V • 9	11	2	5	0	0	1	3	l	9	7	10	7	4	1	0	3	
5.1.6	5	1	0	0	1	0	0	1	2	4	3	11	0	0	1	0	
6• 1.7	1	0	0	0	0	0	0	2	2	3	3	2	1	0	0	2	l
7 · V · 8	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
8 • V • 9	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	
9 • V • 10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9 V H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11 • V • 12	0	0	0	0	0	0	0	0	Ö	0	0	0	0	0	0	0	
12 • V • 13	0	0	0	0	0	0	0	Ó	0	0	0	0	0	0	0	0	
13 • V • 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
																<u> </u>	
Total	40	3	9	4	4	1	3	4	17	18	23	29	12	i	3	9	180
Wind speed	4	4	4	3	3	4	4	5	5	4	4	5	4	4	4	4	
Ratio	22	2	5	2	2	1	2	2	9	10	13	16	7	1	2	5	100



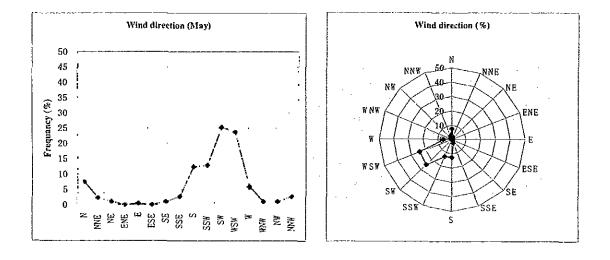


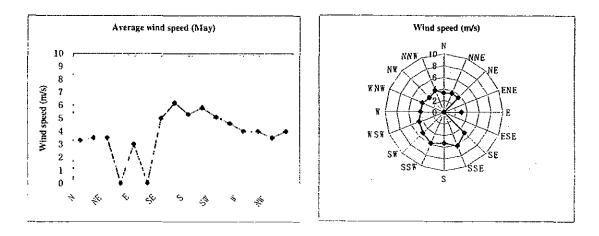
A7-9

## Table 7-4-11

### MONTHLY WIND DATA at MAEMERE AIRPORT (1995-2000) -May-

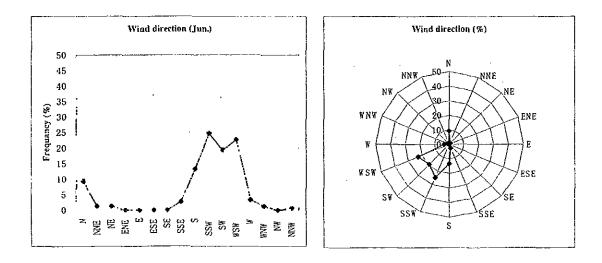
SUM,May		Û	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338	
	N		NNE	NE	ENE	Е	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
0 • ٧ • 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1 V 2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2 • V • 3		1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	
3•V•4		8	2	Ţ	0	1	0	0	0	0	0	5	5	4	I	l	0	
4• • • •		5	2	1	0	0	0	1	1	8	4	14	16	3	0	1	5	
5 V 6	[	Õ	0	Ŭ.	0	0	0	0	0	9	7	8	17	4	1	0	0	
6 • V • 7		0	0	0	0	0	0	1	2	1	7	8	4	0	0	0	0	
7 • ٧ • 8	· · · ·	0	0	0	0	0	0	0	1	1	2	7	1	0	0	0	0	
8 • V • 9		0	0	0	0	0	0	0	1	4	3	4	1	0	0	0	0	
9•7•10	[	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
•0•V•F1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11 • 🗸 • 12		0	0	. 0	0	0	0	0	0	0	0	0	0	Ŏ	0	Ò	0	
12 • V • 13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 • V • M		0	0	0	0	0	0	0	0	0	0	0	0	0	Ò	0	0	
												[						
Total	1	4	4	2	0	1	0	2	5	23	24	47	44	11	2	2	5	186
Wind speed		3	4	4	0	3	0	5	6	5	6	5	5	4	4	4	4	
Ratio		8	2	1	0	1	0	1	3	12	13	25	24	6	1	1	3	100
	<b></b>					î_		h		L		L. <b>2</b> 0		<u>لــــــــــــــــــــــــــــــــــــ</u>				100





# Table 7-4-12 MONTHLY WIND DATA at MAEMERE AIRPORT (1995-2000) -June

SUM,Jun	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	N₩	NNW	
0 * V * ľ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1•7•2	0	0	0	0	0	0	0	0	0	0	Ô	0	0	0	0	0	
2•7•3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3 V 4	8	1	1	0	0	0	0	0	0	1	1	2	l	0	0	1	
4 • V • 9	6	i	1	0	0	0	0	2	6	3	2	5	2	0	0	0	
5 7 6	0	0	0	0	0	0	0	2	4	14	8	10	0	2	0	0	
6 7 7	0	0	0	0	0	0	0	0	7	11	8	10	1	0	0	0	
7 • 🗸 • 8	0	0	0	0	0	0	0	0	i	3	5	2	0	0	0	0	
8 V 9	0	0	0	0	0	0	0	0	2	4	4	5	1	0	Û	0	i i
9 · V · 10	0	0	0	0	0	0	Ö	0	0	1	1	0	0	0	0	0	
•B • V • Pi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11 V 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12 V 13	Ö	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	İ
13 • V • H	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	14	2	2	0	0	0	0	4	20	37	29	34	5	2	0	1	150
Wind speed	3	4	4	0	0	0	Ó	5	6	6	6	6	5	5	0	3	
Ratio	9	1	1	0	0	0	0	3	13	25	19	23	3	1	0	1	100



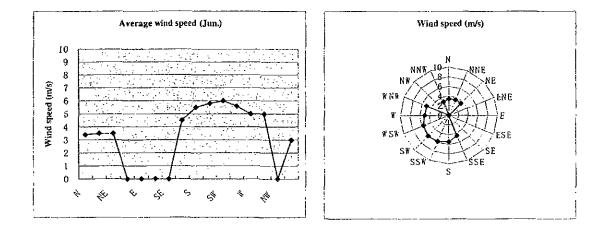
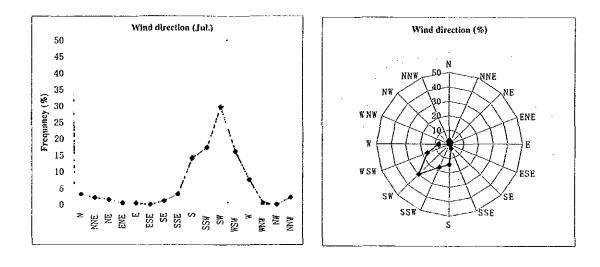


Table 7-4-13	
MONTHLY WIND DATA at MAEMERE AIRPORT (1995-2000) - July-	

SUM, Jul	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338	
	N	NNE	NE	ENE	Е	ESB	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
0.4.1	0	Ó	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
I ' V • 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ó	Ō	
2 • V • 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	i f
3 V 4	3	Ó	1	0	1	0	0	0	0	0	4	1	2	0	0	1	1
4 • 🛛 • 9	0	4	1	0	0	Û	0	1	4	0	17	7	5	1	0	2	
5 • V • O	3	0	0	1	0	0	1	1	4	5	3	5	2	0	0	0	
6 • V • 7	0	0	<u> </u>	0	0	0	1	2	10	12	11	8	2	0	0	1	ļ
7 V 8	0	0	0	0	0	0	0	1	2	5	8	6	2	0	0	0	
8.1.3	0	0	0	0	0	0	0	1	4	7	8	3	1	0	0	0	r
9 ° V ° 10	0	0	0	0	0	0	0	0	2	2	4	0	0	0	0	0	1
-0 · V · I-1	0	0	0	0	0	Û	0	0	0	1	0	0	0	0	0	0	1
11 · V · 12	0	0	0	0	0	Û	0	0	0	0	0	0	0	0	0	0	1
12 • V • 13	0	0	0	0	0	Û	0	0	0	0	0	0	0	0	0	0	1
13 • V • 14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
		L						L			l						r I
Total	6	4	3		1	0	2	6	26	32	55	30	14	1	0	4	185
Wind speed	4	4	4	5	3	0	6	6	6	7	6	6	5	4	0	4	1
Ratio	3	2	2			0	1	3	14	17	30	16	8	1	0	2	100



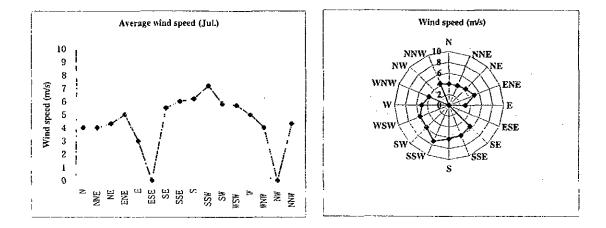
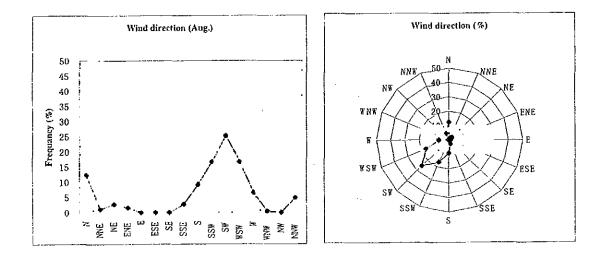
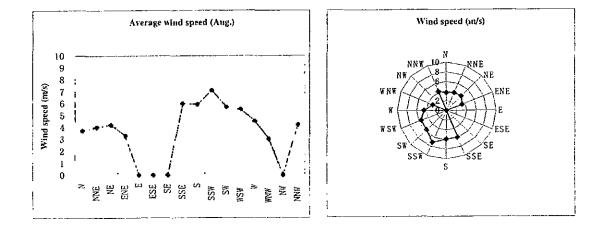


Table 7-4-14
MONTHLY WIND DATA at MAEMERE AIRPORT (1995-2000) -August-

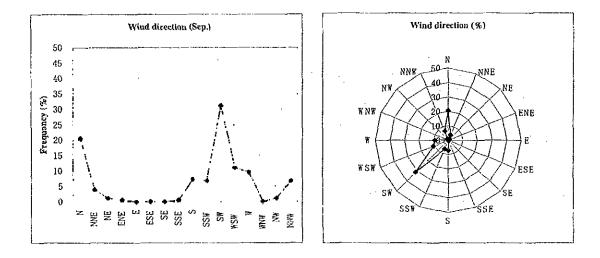
SUM, Aug	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338	
	N	NNE	NE	ENE	B	ESE	SE	SSE	S	SSW	S₩	WSW	W	WNW	NW	NNW	
0 • ٧ • 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1.4.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Í
2 V 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3 • V • 4	8	0	2	2	0	0	0	0	1	0	0	2	2	1	0	0	
4 • V • 9	15	2	1	1	0	0	0	2	2	Ű	14	7	5	0	0	7	
5.4.0	0	0	1	0	0	0	0	0	7	2	12	7	3	0	0	2	
6 • 4 • 7	0	0	1	0	0	0	0	1	2	10	7	9	1	0	0	0	1
7 • V • 8	0	0	0	0	0	0	0	0	0	7	6	2	1	0	0	0	1
8 • V • 9	0	0	0	0	0	0	0	2	3	7	5	3	0	0	0	0	1
9 · V · 10	<del>0</del>	0	0	0	0	0	0	0	2	5	3	1	0	0	0	0	
•0 • V • h1	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	
11 V 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12 V 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 V 14	0	0	0	0	0	0	0	0	0	Ŭ	0	0	0	0	0	0	1
					I		L					L				····	
'fotal	23	2	5	3	0	0	0	5	17	31	47	31	12	1	0	9	186
Wind speed	4	4	4	3	0	0	0	6	6	7	6	6	5	3	0	4	
Ratio	12	1	3	2	0	0	0	3	9	17	25	17	7	1	0	5	100





# Table 7-4-15 MONTHLY WIND DATA at MAEMERE AIRPORT (1995-2000) -September

N         NNE         NE         ENE         E         ESE         SE         SSW         SW         WSW W         WNW NW         NNW $0 \cdot V \cdot I'$ 0         0	SUM,Sep	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		N	NNE	NE	ENE	Е	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 • ٧ • 1•	0	0	0	0	0	0	0	0	0	0	0	0	0	0	U	0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1.1.5	0	0	0	0	Ö	0	0	0	0	0	0	0	0	0	0	0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 V 3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3• ٧•4	8	3	1	0	0	0	0	0	0	0	0	0	5	. 0	0	1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 V 3	18	3	1	J	0	0	Ó	1	0	1	11	4	2	0	2	7	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5 ° V ° O	8	1	0	0	0	0	0	0	5	1	11	ĺ	$\begin{bmatrix} 1 \end{bmatrix}$	0	0	3	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 • 🗸 • 7	2	0	0	0	0	Ò	0	0	5	2	8	8	3	Ō	0	1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7.1.8	0	0	0	0	0	0	0	0	2	3	8	2		0	0	0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8 V 9	0	0	0	0	0	0	0	0	1	4	to the second se	4	3	0	0	0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	9 V IO	1	0	0	0	0	0	0	0	0	L	7	1	0	0	0		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	•0 • V • I*I	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11 . A . 15	0	0	0	0	Ō	0	0	0	0	0	2	0	0	0	0	0	
Total $37$ $7$ $2$ $1$ $0$ $0$ $1$ $13$ $12$ $56$ $20$ $17$ $0$ $2$ $12$ Wind speed $4$ $4$ $4$ $0$ $0$ $4$ $6$ $7$ $6$ $6$ $5$ $0$ $4$ $4$	12 • V • 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Wind speed 4 4 4 4 0 0 0 4 6 7 6 6 5 0 4 4	13 • V • 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Wind speed 4 4 4 4 0 0 0 4 6 7 6 6 5 0 4 4								I										
	Total	37	7	2	1	Ó	0	0	1	13	12		20		0	2	12	180
Ratio 21 4 1 1 0 0 0 1 7 7 31 11 9 0 1 7 100	Wind speed	4	4	4	4	0	0	0	4			<u> </u>	6	5	0	4	4	
	Ratio	21	4	1	1	Ó	0	0	1	7	7	31	11	9	0	1	7	100



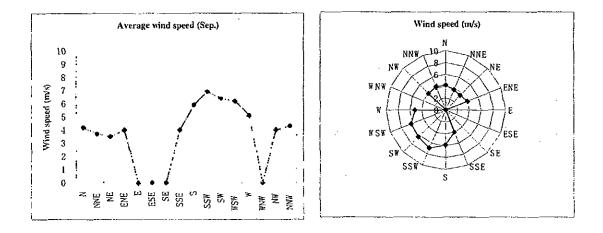
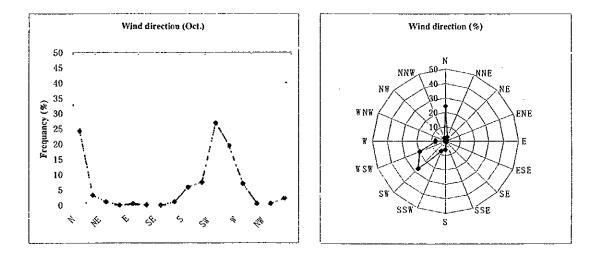
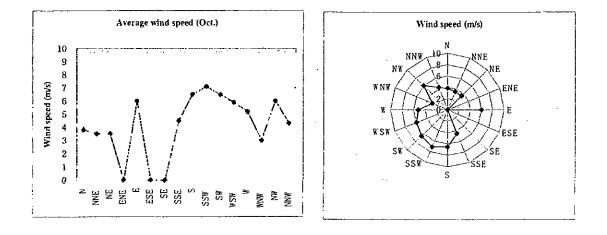


Table 7-4-16
MONTHLY WIND DATA at MAEMERE AIRPORT (1995-2000) -Octorber-

SUM,Oct	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338	
	N	NNE	NE	ENE	E	ESE	SE	SSE	<u>S</u>	SSW	SW	WSW	<u> </u>	WNW	NW	NNW	
0•∀•1	0	0	Û Û	0	0	0	0	0	0	0	0	0	0	0	0	0	
1.1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2 • V • 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3• ٧•4	16	3	1	0	0	0	0	0	0	0	0	2	1	1	0	0	
4• ٧• 3	23	3	l î	0	0	0	0	]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]	0	0	8	6	1	0	0	3	
5• <b>V•</b> 6	5	0	0	Û	0	0	0	1	5	4	7	9	8	0	0	1	
6 7 7	0	0	0	0	1	0	0	0	0	1	13	6	1	0	1	0	
7• • • 8	1	0	0	0	0	0	0	0	2	2	3	5	1	0	0	0	
8 • V • 9	0	0	0	0	0	0	0	0	4	. 4	14	6	1	0	0	0	
9 · V · 10	0	0	0	0	0	0	0	0	0	3	5	2	0	0	0	0	
•9 • V • FI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11 • 🛛 • 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12 • V • 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 • V • 14	0	0	0	0	0	0	0	0	Ó	0	0	0	0	0	0	0	
									<u> </u>				[	1			
Total	45	6	2	0	1	0	0	2	11	14	50	36	13	1	1	4	186
Wind speed	4	4	4	0	6	0	0	5	7	7	7	6	5	3	6	4	
Ratio	24	3	Î	0	1	0	0	1	6	8	27	19	7	1	1	2	100



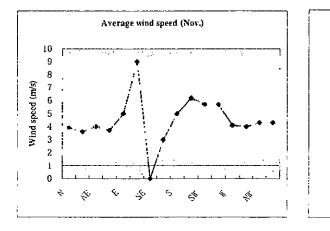


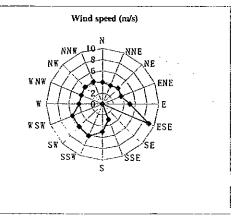
A7-15

## Table 7-4-17 MONTHLY WIND DATA at MAEMERE AIRPORT (1995-2000) -November-

1	M		45	68	90	113	135	158	180	203	225	248	270	293	315	338	
		NNE	NE	ENE	Е	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
0 • ٧ • • •	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1.4.5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
2 • V • 3 [	J	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3 • V • 4	10	3	1	3	0	0	0	1	1	0	1	1	2	0	1	4	
4•∀•9 [	23	5	4	2	1	0	0	0	1	4	9	8	6	2	2	3	
5 • V • 6 [	6	0	1	<u> </u>	0	0	0	0	0	3	5	8	3	0	0	4	
6 • ٧ • 7	0	0	0	0	Ţ	0	0	Ö	1	6	3	4	2	Ó	1	0	İ
7	0	0	0	0	0	0	0	0	1	1	3	6	0	0	0	1	
8.4.8	0	0	0	0	0	0	0	0	0	4	6	3	0	0	0	0	
9 10 [	0	0	0	0	0	1	0	0	0	2	1	2	0	0	0	0	
•0•V•เ1[	0	0	0	0	0	0	0	0	0	0	0	0	Ō	0	0	0	
11 ° V ° 12 [	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12 ° V ° 13 [	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 • V • 14 [	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ľ																	
Total	40	8	6	6	2	1	0	1	4	20	28	32	14	2	4	12	180
Wind speed	4	4	4	4	5	9	0	3	5	6	6	6	4	4	4	4	ĺ
Ratio	22	4	3	3	]	1	0	1	2	11	16	18	8	1	2	7	100

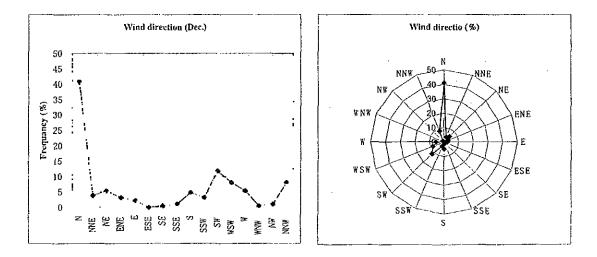
Wind direction (Nov.) Wind direction (%) 50 í N 45 50 NNW NNE 40 40 NW NE 35 30 Frequancy (%) 30 WNW ene 25 20 R E 1 15 W S W ESE 10 5 S 3 ŚE 0 SSW ŚSE ENE NNE CSE SEE SSE z ASS ASS 2 ANN ANN s

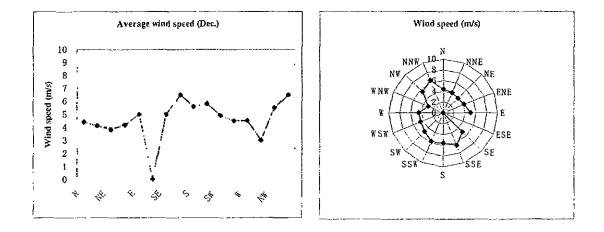




# Table 7-4-18 MONTHLY WIND DATA at MAEMERE AIRPORT (1995-2000) -December

SUM,Dec	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338	
	N	NNE	NE	ENE	E	ESE	SE .	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	
0 • V • i•	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1.4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2 3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
3• • • 4	25	3	6	4	1	0	0	0	Ī	0	4	3	1	1	0	1	
4 • V • 5	22	3	2	0	0	0	0	1	3	2	3	6	4	0	0	2	
5 V 0	11	0	0	1	2	0	1	0	2	0	9	4	4	0	1	3	
6.4.7	7	0	2	0	0	0	0	0	0	2	4	0	1	0	1	2	
7 • V • 8	1	0	0	0	1	0	0	0	0	l	2	1	0	0	0	2	
8 • 7 • 9	6	1	0	1	0	0	0	. 0	2	1	0	1	0	0	0	2	
9 V • 10	2	0	0	Ö	0	0	0	1	1	0	0	0	0	0	0	L	
•0 • V • i•i	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
11 • • 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12 • V • 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 V 14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Ó	0	
Total	76	7	10	6	4	0	1	2	9	6	22	15	10	1	2	15	186
Wind speed	4	4	4	4	5	0	5	7	6	6	5	5	5	3	6	7	
Ratio	41	4	5	3	2	0	1	1	5	3	12	8	5	1	1	8	100

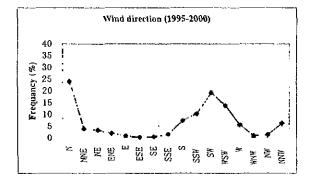


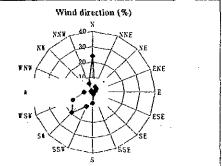


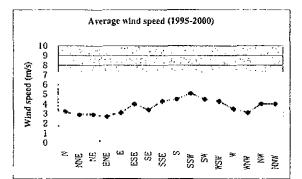
A7-17

### WIND DATA at MAEMERE AIRPORT (1995-2000)

• SUM	0	23	45	68	90	113	135	158	180	203	225	248	270	293	315	338	
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	_
0 • V • F	0	0	0	0	0	0	0	0	0	0	0	0	0	Ö	0	0	
1 V 2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	
2 V 3	10	1	1	0	1	0	0	0	0	0	2	0	1	0	0	0	
3 V 4	180	31	31	22	8	Ī	2	3	7	9	37	27	33	8	7	24	
4 V 9	192	38	26	12	1	2	4	11	37	28	103	79	34	5	9	44	
5 · V · 6	56	8	5	6	4	0	2	5	46	46	79	78	27	3	2	29	
6 · V · 7	31	1	4	Ű	2	0	2	7	29	57	75	52	12	0	4	12	
7 · V · 8	9	0	2	0	1	0	0	2	9	26	44	26	6	1	1	8	
8 • 7 • 9	26	3	2	1	0	0	0	4	22	37	50	27	6	1	4	11	
9 V 10	12	0	0	0	0	1	0		5	15	21	6	0	0	]	4	
0 V H	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	3	
11 • V • 12	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	
12 V I3	Ű	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13 V 14	0	0	0	Ó	0	0	0	0	0	1	0	0	0	0	0	0	
																	j –
Total	516	83	71	41	17	4	10	33	155	220	413	296	121	18	28	135	2161
Wind speed	3	3	3	3	3	4	3	4	5	5	5	4	4	3	4	4	
Ratio	24	4	3	2	l	0	l	2	7	10	19	14	6		1	6	100







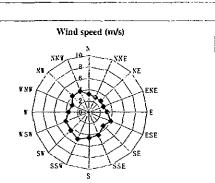


Table 7-4-19

**APPENDIX -8** 

ECONOMIC AND FINANCIAL ANALYSIS

Economic Evaluation of Rompo/Waworada and Bima Fish Market

·				· · · ·			<u> </u>	•			·	•	· · · · ·	· · · ·	· · · ·		Un	it: Rp.million
		0	1	2	3	4	-5	6	7	8	9	10	11	12	13	14	15	Salvage Valu
csource Mana	gement	1)	1. E.							at de la			-					
Benefit		0	420.45	420.45	420.45	420.45	420.45	420.45	420.45	420,45	420.45	420.45	420.45	420.45	420.45	420.45	420.45	
Cost		1512	349	285	240	239	280	257	. 258	257	254	537	75	- 75	75	75	75	-127.1
IRR	8%	-1,512	71	136	180	181	- 140	163	162	163	167	-116	345	345	345	345	345	12
anding, Marke	eting, P	rocessing etc	2)	1					. • .	÷								
Benefit		0.00	3.097.98	3,097.98	3,097.98	3,097.98	3,097.98	3,097.98	3,097.98	3,097.98	3,097.98	3,097.98	3,097.98	3,097.98	3,097.98	3,097.98	3,097.98	
Cost		20,833.39	494.78	513.51	519.53	524.80	554.67	551.60	537.81	547.34	542.06	2,257.80	537.81	551.60	537.81	547.34	537.81	-9560.23
IRR	. 10%	(20,833.39)	2,603.20	2,584.47	2,578.45	2,573.18	2,543.31	2,546.38	2,560.17	2,550.64	2,555.92	840.18	2,560.17	2,546.38	2,560.17	2,550.64	2,560.17	9,56
invironmental	Improv	ement <sup>3)</sup>		al de la		1.0	1 at 1					l ·	1					[
Benefit	1.1	0.00	15.08	15.08	15.08	15.08	15.08	15.08	15.08	15.08	15.08	15.08	15.08	15.08	15.08	15.08	15.08	
Cost		306.15	0.00	0.00	0.00	0.00	8.50	0.00	0.00	0.00	0.00	306.15	0.00	0.00	0.00	0.00	0.00	-148.8
IRR	N.A.	-306.2	15.1	15.1	15.1	15.1	6.6	15:1	15.1	15.1	15.1	-291.1	15.1	15.1	15.1	15.1	.15.1	14
otal						· ·						1.00	1.1.1					
Benefit	1.1	0	3,533.51	3,533.51	3,533.51	3,533.51	3,533.51	3,533.51	3,533.51	3,533.51	3,533.51	3,533.51	3,533.51	3,533.51	3,533.51	3,533.51	3,533.51	1
Cost	i .	22651.585		798.33	759.99	764.27	843.33	808.93	796.13	804.67	795.62	3,100.73	612.93	626.72	612.93	622.46	612.93	-9836.81
IRR	10%	-22.652	2,689.36	2.735.18	2.773.52	2,769.24	2 690 18	2 724 58	273738	2 728 84	2 737 89	432.78	2 920 58	2 906 79	2 920 58	2,911.05	2 920 58	9,83

1) Including costs/benefits of model fishing boat, surveillance activities by speed boat and other activities such as education/training, mobilization/operation of fushermen organization, etc.
 2) Including costs/benefits from operation of fishery base such as Ice plant, FAD, transport truck, etc., as well as that of basic facilities.

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3) Including costs/benefits of Improvement of community environment.

ومعتقد وأجاري المراجع والمحمد والمراجع

A8-1

### Financial Evaluation of Rompo/Waworada and Bima Market

Unit: Rp.million 15 Salvage Value Complex Revenue FAD Expenditure<sup>2)</sup> 0&M Investment 2.608 -787 4% IRR -2,608 -483 Grant<sup>3)</sup> 0.8 42% -522 -483 District Revenue4) Expenditure<sup>5)</sup> 0&M D Investment 30.819 3.154 -13,107 Private (borrower etc.)<sup>b)</sup> Expenditure 0&M Total Revenue (A) 1,011 1,011 1,011 1,011 1,011 O&M (B) 33,427 3,928 Investment -13,894 A-B<sup>7)</sup> FIRR -33,427 151 -3.728 N.A. 13,894 Grant 0.8 -6,685 151 -3,728 3% 13,894 Routine Budget of<sup>8)</sup> C-D -214 -193 -!12 -106 -122 -96 -91 -91 -91 -91 -91 -91 -91 -91 -91 Dinas Perikanan o 54.9 49.6 28.7 27.3 24.7 23.4 23.4 23.3 % 31.2 23.4 23.4 23.3 23.3 23.3 23.3 District 199,521 0.11 0.10 0.06 0.05 0.06 0.05 0.05 0.05 0.05 0.05 0.05 0.05 % 0.05 0.05 0.05

Notes: 1) Including incomes from operation of functional facilities and those fro transport truck, boat, etc. As for FAD, separately counting income that could absorb Its renewal cost.

2) Including investment/renewal cost of functional facilities, FAD, transport truck, boat, etc., and separately counting those operation costs

3) In the case that could secure a grant fund of 80% of initial investment cost.

4) Counting only fish sale income by model boat operation and fishing license fec

 Including cost of model boat operation, surveillance activities as well as other activities such as education/training, mobilization/operation of fishermen organizations, etc., and separately counting investment and O&M costs.

6) Counting fuel cost of transport truck (added to income /expenses of the total. In the economic evaluation, included to the operation costs of functional facilities)

7) The balance not including investment cost. In the calculation of IRR, indicating the case of overall investment cost

and that of securing a grant fund of 80% of initial investment costs

8) As for reference, indicating deficit amount and those rate(%) out of annual budget of fishery office and that of district government.

						200			01 0010	,								
																	U	nit: Rp.million
		0	1	2	3	4	5	6	7	8	. 9	10	11	12	13.	14]	15	Salvage Value
Resource Manag	gement <sup>1)</sup>																	
Benefit		0	318	318	318	318	318	318	318	318	318	318	318	318	318	318	318	0
Cost		1,596	509	445	267	265	299	285	287	285	278	763	98	98	98	98	98	-239
IRR	-4%	-1,596	-190	-126	52	53	20	33	31	33	41	-445	220	220	220	220	220	239
Landing, Marke	ting, Pro	cessing e	1c <sup>2)</sup>															
Benefit		0	2,205	2,254	2,254	2,254	2,254	2,254	2,254	2,254	2,254	2,254	2,254	2,254	2,254	2,254	2,254	Ó
Cost		17,714	95	112	102	119	124	126	110	126	110	3,571	110	126	110	126	110	-8,573
IRR	9%	-17,714	2,110	2,142	2,152	2,135	2,130	2,127	2,144	2,127	2,144	-1,317	2,144	2,127	2,144	2,127	2,144	8,573
Total															ł			
Benefit		0	2,524	2,572	2,572	2,572	2,572	2,572	2,572	2,572	2,572	2,572	2,572	2,572	2,572	2,572	2,572	0
Cost		19,309	604	557	369	384	422	412	397	412	387	4,334	208	225	208	225	208	-8,813
IRR	8%	-19,309	1,920	2,015	2,203	2,188	2,150	2,161	2,176	2,161	2,185	-1,762	2,364	2,347	2,364	2,347	2,364	8,813
			a. a.															

## Economic Evaluation of Soro/Kempo and Hu'u

Notes: 1) Including costs/benefits of model fishing boat, surveillance activities by speed boat and other activities such as education/training, mobilization/operation of fushermen organization, etc. 2) Including costs/benefits from operation of fishery base such as Ice plant, FAD, transport truck, etc., as well as that of basic facilities. 3) Including costs/benefits of Improvement of community environment.

### Financial Evaluation of Soro/Kempo and Hu'u

											•									Unit: Rp.mill
				0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Salvage Val
Complex																		l		
Revenue <sup>1)</sup>			[																	
	1				380	380	404	404	404	423	423	423	423	423	423	423	423	423	423	<u></u>
Expenditure	2)			1																[
0&M	1			1	309	309	323	323	323	345	345	345	345	345	345	345	345	345	345	
Investment			1	1,762	0	19	0	19	24	19	0	19	0	181	0	19	0	19	0	-465
IRR		-3%	1	-1,762	71	53	81	62	57	60	79	60	79	-103	79	60	79	60	79	465
Grant <sup>3)</sup>	80%	17%	[	-352	71	53	81	62	57	60	79	60	79	-103	79	60	79	60	79	465
District			1									i								1
Revenue <sup>4)</sup>		1	T																	
······	С			1	217	217	217	217	217	217	217	217	217	217	15	15	15	15	15	l
Expenditure	5)																			l
0&M	D	<u> </u>	ţ	1	565	494	297	294	307	317	319	317	309	309	109	109	109	109	109	
Investment	1	1	1	23,561	0	0	0	0	33	0	0	0	0	5,228	0	0	0	0	0	-11,195
Private (born	ower etc		1															-		
Expenditure		1																		
0&M					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total		Revenue (A	Ļ		598	598	622	622	622	641	641	641	641	641	438	438	438	438	438	
10(4)		O&M (B)	í –		874	803	620	618	631	662	664	662	653	653	454	454	454	454	454	
		Investment	····	25,323	0	19	0	19	57	19	0	19	000	5,409		19	0	19		-11,660
		A-B <sup>7</sup>			-277	-206	2	4	-9	-21	-23	-21	-13	-13	-16	-16	-16	-16	-16	
FIRR		N.A.		######	277	-224	2	-15	-66	-40	-23	-40	-13	-5,422	-16	-35	-16	-35	-16	11,660
Grant	80%	0%		-5,065	-277	-224	2	-15	-66	-40	-23	-40	-13	-5,422	-16	-35	-16	-35	-16	11,660
Routine Budg	get of <sup>8</sup>	1	C-D		-348	-277	-79	-77	-90	-100	-102	-100	-91	-91	-95	-95	-95	-95	-95	
Dinas Perika	กลก	724			48.1	38.3	11.0	10.7	12.4	13.8	14.1	13.8	12.6	12.6	13.1	13.1	13.1	13.1	13.1	
District		81,480			0.43	0.34	0.10	0.09	0.11	0.12	0.12	0.12	0.11	0.11	0.12	0.12	0.12	0.12	0.12	

Notes: 1) Including incomes from operation of functional facilities and those fro transport truck, boat, etc. As for FAD, separately counting income that could absorb its renewal cost.

2) Including investment/renewal cost of functional facilities, FAD, transport truck, boat, etc., and separately counting those operation costs

3) In the case that could secure a grant fund of 80% of initial investment cost,

4). Counting only fish sale income by model boat operation and fishing license fee

5) Including cost of model boat operation, surveillance activities as well as other activities such as education/training, mobilization/operation

6) Counting fuel cost of transport truck (added to income /expenses of the total. In the economic evaluation, included to the operation costs of functional facilities)

7) The balance not including investment cost. In the calculation of IRR, indicating the case of overall investment cost

8) As for reference, indicating deficit amount and those rate(%) out of annual budget of fishery office and that of district government.

								••••	and, Lan		, ~-3-, 20							Uni	t: Rp.million
			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Salvaged Value
Resource N	lanagemen	t <sup>1)</sup>				1		1						•					
	Benefit		0	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	1,603	0
	Cost		4,255	1,164	1,042	931	927	1,247	980	984	980	956	2,909	603	603	603	603	603	-825
	IRR	11%	-4,255	439	560	672	676	356	623	619	623	647	-1,306	1,000	1,000	1,000	1,000	1,000	825
Landing, M	farketing, F	rocessi	ng etc <sup>2)</sup>					1											
	Benefit		0	5,847	5,847	5,866	5,866	5,866	5,912	5,912	5,912	5,912	5,912	5,912	5,912	5,912	5,912	5,912	0
	Cost		23,701	1,001	999	1,021	1,043	1,913	1,138	1,103	1,131	1,110	5,039	1,103	1,138	1,103	1,131	1,103	-9,762
	IRR	18%	-23,701	4,845	4,848	4,845	4,823	3,953	4,774	4,809	4,781	4,802	872	4,809	4,774	4,809	4,781	4,809	9,762
Environme	ntal Improv	ement	,																
	Benefit		0	41	41	41	41	41	41	41	41	41	41	41	41	41	41	4[	0
	Cost		47	1	0	0	0	35	0	0	0	0	47	0	0	0	0	0	-6
	IRR	82%	-47	40	41	41	41	5	41	41	41	41	-7	41	41	41	41	41	6
Total																			l
	Benefit		0	7,490	7,490	7,510	7,510	7,510	7,555	7,555	7,555	7,555	7,555	7,555	7,555	7,555	7,555	7,355	0
_	Cost		28,003	2,166	2,041	1,952	1,970	3,195	2,118	2,087	2,111	2,065	7,996	1,705	1,740	1,705	1,734	1,705	-10,592
	IRR	17%	-28,003	5,324	5,449	5,557	5,540	4,314	5,438	5,468	5,444	5,490	-440	5,850	5,815	5,850	5,822	5,850	10,592

Economic Evaluation of Oka/Larantuka, Lamahala Jaya, Sagu, Lewoleba, Balauring and Lamalera

1) Including costs/benefits of model fishing boat, surveillance activities by speed boat and other activities such as education/training, mobilization/operation of fushermen organization, etc. Notes: 2) Including costs/benefits from operation of fishery base such as Ice plant, FAD, transport truck, etc., as well as that of basic facilities.

3) Including costs/benefits of Improvement of community environment.

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												ia sagu (E							Unit: F	lp.million
				0	1	2	3	4	5	6	7	8		16	£1	12	13	14{	15 5	alvaged Valu
Complex	1			}													1		1	
Revenue"	1												[					1		
					1,021	1,021	1,054	1,054	1,054	1,095	1,095	1,095	1.095	1,095	1,095	1,095	1,095	1,095	1,095	
	FAD				140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	
Expenditure <sup>2)</sup>	1								Í								[			
O&M					578	578	597	597	597	635 ]	635	635	635	635	635	635	635	635	635	
Investment	1			4,445	140	158	143	158	989	161	140	158 ]	143 j	1,528	140	161	140	158	140	-9
IRR	1	2%		-4,445	443	425	454	439	-392	438	460	442	456	-928	460	438	460	442	460	9
Grant <sup>30</sup>	80%	41%		-889	443	425	454	439	-392	438	460	442	456	-928	460	438	460	442	460	99
District	1								1											
Revenue <sup>41</sup>	C								1											
					242	242	242	242	242	242	242	242	242	242	45	45	45	45	45	
Expenditure <sup>3)</sup>																{				
0&M	D				494	423	349	347	356	383	385	383	369	369	173	173	173	173	173	•
Investment	I			16,263	U	0	0 [	0	174	0	0	0	0	2,574	0	0	0	0	0	-6,8
Private (borro	wer etc	.) <sup>m</sup>			I						1	İ					í			
Expenditure	1.																1			
0&M	ļ				100	100	100	100	100	100	100	100	100	. 100	100	100	100	100	100	
l'otal		Revenue (A)	)	·	1,503	1,503	1,536	1,536	1,536	1,576	1,576	1,576	1,576	1,576	1,380	1,380	1,380	1,380	1,380	
		O&M (B)		1	1,172	1,101	1,047	1,044	1,053	1118	1,120	1,118	1,104	1,104	908	908	908	908	908	
	1	Investment		20,708	140	158	143	158	1,163	161	140	158	143	4,102	140	161	140	158	140	-7,82
		A-B <sup>7</sup>			331	402	490	492	483	458	456	458	472	472	471	47!	471	471	471	
FIRR	-	N.A.		-20,708	191	244	346	334	-681	297	316	300	328	-3,630	331	310	331	314	331	7,82
Grani	80%	4%		-4,142	191	244	346	334	-681	297	316	300	328	-3,630	331	310	331	3]4	331	7,8
Routine Budge				C-D	-252	-181	-108	-105		-141	-143	-14[	-128	-128	-128	-128	-128	-128	-128	
Dinas Perikan		578	%	1	43.6	31.3	18.6	18.2	19.8	24.4	24.8	24.4	22.1	22.1	22.2	22.2	22.2	22.2	22.2	
strict	T	74,304	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	+	0.34	0.24	0.14	0.14	0.15	0.19	0.19	0.19	0.17	0.17	0.17	0.17	0.17	0.17	0.17	

#### Financial Evaluation of Oka/Larantuka, Lamahala Jaya and Sagu (East Flores District Area)

A8-6

Notes: 1) Including incomes from operation of functional facilities and those fro transport truck, boat, etc. As for FAD, separately counting income that could absorb its renewal cost.

2) Including investment/renewal cost of functional facilities, FAD, transport truck, boat, etc., and separately counting those operation costs

3) In the case that could secure a grant fund of 80% of initial investment cost.

4) Counting only fish sale income by model boat operation and fishing license fee

.

5) Including cost of model boat operation, surveillance activities as well as other activities such as education/irzining, mobilization/operation

6) Counting fuel cost of transport truck (added to income /expenses of the total. In the economic evaluation, included to the operation costs of functional facilities)

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The balance not including investment cost. In the calculation of IRR, indicating the case of overall investment cost.
 As for reference, indicating deficit amount and those rate(%) out of annual budget of fishery office and that of district government.

#### Financial Evaluation of Lewoleba, Balauring and Lamalera (Lembata District)

																		Unit:	Rp.million
			0	1	2	3	4	5	6	7	8	9	10	11	12]	13	14	15	Salvaged Val
Complex																			
Revenue																			
				734	734	762	762	762	806	806	806	806	806	806	806	806	806	806	
FAD				140	140	140	140	140	140 ]	140	140	140	140	140	140	140	140	140	
Expenditure <sup>2)</sup>										·									
O.M.				472	472 {	494	494	494	\$39	539	539	539	539	539	539	539	539	539	
Investment			4,251	i40	153	144	153	161	157	140	153	144	629	140	157	140	1.53	140	-1,094
IRR	1%		-4,251	262	248	264	254	247	249	267	253	263	-222	267	249	267	253	267	1,09
Grant <sup>3)</sup> 802	6 29%		-850	262	248	264	254	247	249	267	253	263	-222	267	249	267	253	267	1,09-
District																			
Revenue <sup>41</sup> C									Ì										
			<u>+</u>	204	204	204	204	204	204	204	204	204	204			7			
Expenditure <sup>3)</sup>	-{		<u> </u>												· · · · · · · · · · · · · · · · · · ·				· · ·
O&M D	-{		{{	429	364	314	312	321	335	337	335	321	321		125		125	106	
Investment	+		9,771	- 429		0	0	233		0	0	0	1,590	125	0	125	- 123	125	-4,303
Private (borrowe	1 (10.10)						· · · ·			`	V	V	1,270						
Expenditure	r cic. j								{										
O&M			l	100	100		100	100	100	100	100	100	100		100		100	100	
0000				100			100		100	100	- 100	100	100	100	100	100	100	100	
Toini	Revenue (A	)	1	1,177	1,177	1,206	1,206	1,206	1,250	1,250	1,250	1,250	1,250	1,053	1,053	1,053	1,053	1,053	
	O&M (B)	í		1,001	936	908	906	915	974	976	974	961	961	764	764	764	764	764	
	Investment		14,022	140	153	144	153	394	157	[40]	153	144	Z,218	140	157	140	153	140	-5_39
	A-B <sup>7)</sup>			177	242	298	300	291	276	273	276	289	289	289	289	289	289	239	
FIRR	N.A.		-14,022	37	88	154	147	-103	118	133	122	145	-1,929	149	131	149	135	149	5,392
Grant 809			-2,804	37		154	147	-103	118	133	122	145	-1,929	149	131	149	135	149	5,39
	1											<u></u>	.,					147	5,57
Routine Budget o	21 <sup>8)</sup>		C-D	-225	-160	-110	-108	-117	-131	-133	-131	-118	-118	-118	-118	-118	-118	-118	
Dinas Perikanan	578	%	[	39.0	27.7	19.1	18.7	20.2	22.7	23.1	22.7	20.3	20.3	20.4	20.4	20.4	20.4	20.4	
strict	74,304	%	<u>  · · · · - ·  </u>	0.30	0.22	0.15	0.15	0.16	0.18	0.18	0.18	0.16	0.16	0.16	0.15	0.16	0.16	0.15	· · ·
Nores D leels						0.15	0.10	0.10	V.19	0.10	V.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	

Notes: 1) Including incomes from operation of functional facilities and those for transport truck, boat, etc. As for FAD, separately counting income that could absorb its renewal cost.

2) Including investment/renewal cost of functional facilities, FAD, transport truck, boat, etc., and separately counting those operation costs

3) In the case that could secure a grant fund of 80% of initial investment cost.

4) Counting only fish sale income by model boat operation and fishing license fee

5) Including cost of model boat operation, surveillance activities as well as other activities such as education/training, mobilization/operation

6) Counting fuel cost of transport truck (added to income /expenses of the total. In the economic evaluation, included to the operation costs of functional facilities)

7) The balance not including investment cost. In the calculation of IRR, indicating the case of overall investment cost

8) As for reference, indicating deficit amount and those rate(%) out of annual budget of fishery office and that of district government.

			0	l	2	3	4	5	6	7	8	9	10	11	12	13	[4]	15	Salvaged Valu
Resource	Management	<u>1</u>																	
	Benefit		0	2765.734	2765.734	2768.623	2768.623	2763.623	2774.383	2774.383	2774.383	2774.383	2774.383	2774.383	2774.383	2774.383	2774.383	2774.383	(
	Cost		4627.592	1603.4184	1419.3084	1405.9584	1396.5984	2145.5634	1404.2034	1397.3634	1396.4034	1392.6234	3169.7286	1030.611	1030.611	1030.611	1030.611	1030.611	-523.8576
	IRR	26%	-4,628	1,162	1,346	1,363	1,372	623	1,370	1,377	1,378	,382	-395	1,744	1 744	1,744	1,744	1,744	524
Landing,	Marketing, Pr	ocessin	g etc <sup>2)</sup>																
	Benefit		0	6119.94	6119.94	6125.94	6125.94	6125.94	6134.94	6134.94	6134.94	6134.94	6134.94	6134.94	6134.94	6134.94	6134.94	6134.94	(
	Cost		29235.0505	973.892	1027.081	1056.364	1063.15	2580.964	1146.408	1117.248	1135.221	1128.435	5009.9665	1117.248	1146.408	1117.248	1135.221	1117.248	-8777.37275
	IRR	15%	-29,235	5,146	5,093	5,070	5,063	3,545	4,989	5,018	5,000	5,007	1,125	5,018	4,989	5,018	5,000	5,018	8,777
Environm	ental Improve	ement <sup>31</sup>																	
	Benefit		0	19.314	19.314	19.314	19.314	19.314	19.314	19.314	19.314	19.314	19.314	19.314	19.314	19.314	19.314	19.314	(
	Cost		17.316	3,564	0	Ü	0	10.92	0	0	0	0	17.316	0	0	0	0	0	-3.198
	IRR	99%	-17	16	19	19	19	8	19	19	19	19	2	19	19	19	19	19	3
Total	1																		
	Benefit		0	8,905	8,905	8,914	8,914	8,914	8,929	8,929	8,929	8,929	8,929	8,929	8,929	8,929	8,929	8,929	0
	Cost		33,880	2,581	2,446	2,462	2,460	4,737	2,551	2,515	2,532	2,521	8,197	2,148	2,177	2,148	2,166	2,148	-9,304
	IRR	16%	-33,880	6,324	6,459	6,452	6,454	4,176	6,378	6,414	6,397	6,408	732	6,781	6,752	6,781	6,763	6,781	9,304

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### Economic Evaluation of Kalimati/Wuring (Maumere), Paga and Paupanda (Ende)

Notes: 1) Including costs/benefits of model fishing boat, surveillance activities by speed boat and other activities such as education/training. mobilization/operation of fushermen organization, etc. 2) Including costs/benefits from operation of fishery base such as Ice plant, FAD, transport truck, etc., as well as that of basic facilities. 3) Including costs/benefits of Improvement of community environment.

#### Financial Evaluation of Kalimati/Wuring and Paga

	_		_																Unic	Rp.million
	_			0)	1]	2	31	4)	- 5	6	7)	8	9		11	12	13	14	15	Salvaged Value
Complex				[ [														·····	1	
Revenue																				
					699	699	731	731	731	762	762	762	762	762	762	762	762	762	762	
	FAD				100	100	100	100	100	100	100	100	100	100	100	100	100	100	100 }	
Expenditur	e <sup>2)</sup>																			
O&M			[ <u> </u>	1	414	414	430	430	430	461	461	461	461	461	461	461	461	461	461	
Investmen	t			3,382	100 [	111	108	111	933	119	100	111	801	1,046	100	119	100	111	100	-634
IRR		0%		-3,382	284	274	293	291	-531	282	301	290	292	-645	301	282	301	290	301	634
Grant <sup>3)</sup>	80%	29%		-676	284	274	293	291	-531	282	301	290	292	-645	301	282	301	290	301	634
District		1	<b>`</b>																	
Revenue4>	с	]																		
				· · · · · · · · · · · · · · · · · · ·	215	215	215	215	215	215	215	215	215	215	18	18	18	18	18	
Expenditur	5)		ļ	[]								ĭ								
	D		I		486	388	362	353	365	351	342	342	342	342	146	146	146	146	146	
Investmen	t			21,181	0	0	0	0	187	0		0	0	2.661		0	0		0	-8,413
vivate (box	rower	etc.) <sup>63</sup>	[																	
Expenditur		T	<u> </u>	1																
O&M	<u> </u>		<u> </u>		100	100	100	100	100	100	100	100	100	100	100	100	100	1001	100	
	1		{	{											j					
Fotal		Revenue (A	)		1,113	1,113	1,146	1,146	1,146	1,177	1,177	1,177	1,177	1,177	980	980	980	980	980	
		O&M (B)			1,000	902	892	883	895	912	903	903	903	903	707	707	707	707	707	
		Investment	I	24,563	100	111	108	111	1,120	119	100	111	108	3,706	100	119	100	[11]	100	-9,047
		A-B <sup>7)</sup>			113	211	254	263	251	265	273	273	273	273	273	273	273	273	273	
FIRR		N.A.		-24,563	13	100	146	153	-869	146	173	163	165	-3,433	173	154	173	162	173	9,047
Grant	80%	2%		-4,913	13	100	146	153	-869	146	173	163	165	-3,433	173	154	173	162	173	9,047
Routine Bo				C-D	-271	-173	-147	-138	-151	-136	-127	- 127	-127	-127	-128	-128	-128	-128	-128	
Dinas Penk	anan	392			69.3	44.3	37.6	35.2	38.4	34.8	32.6	32.6	32.6	32.6	32.7	32.7	32.7	32.7	32.7 (	
strict		32,815	%	1 1	0.83	0.53	0.45	0.42	0.46	0.41	0.39	0.39	C.39	0.39	0.39	0.39	0.39	0.39	0.39	

Notes: 1) including incomes from operation of functional facilities and those fro transport truck, boat, etc. As for FAD, separately counting income that could absorb its renewal cost.

2) Including investment/renewal cost of functional facilities, FAD, transport truck, boat, etc., and separately counting those operation costs

3) In the case that could secure a grant fund of \$0% of initial investment cost.

4) Counting only fish sale income by model boat operation and fishing license fee

5) Including cost of model boat operation, surveillance activities as well as other activities such as education/training, mobilization/operation

6) Counting fuel cost of transport truck (added to income /expenses of the total. In the economic evaluation, included to the operation costs of functional facilities)

7) The balance not including investment cost. In the calculation of IRR, indicating the case of overall investment cost

8) As for reference, indicating deficit amount and those rate(%) out of annual budget of fishery office and that of district government.

#### Financial Evaluation of Paupanda (Ende District Area)

									ation of re									Unit	: Rp.million
			0	1	2	£.	4	5	6	7	8	ġ	10	11	12	13	14	15	Salvaged Value
Complex	1						į												
Expenditure <sup>2)</sup>	1									}					-				
				763	763	791	791	791	822	822	822	822	822	822	822	822	822	822	
FAD			1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Expenditure																			
0&M				397	397	420	420	420	467	467	467	467	467	467	467	467	467	467	
Investment			3,811	100	109	104	109	974	113	100	109	104	1,052	100	113	100	109	100	-724
RR	1%		-3,811	367	358	367	362 ]	-503	342	355	346	351	-597	355	342	355	346	355	724
Grant 807	5 36%		-762	367	358	367	362	-503	342	355	346	351	-597	355	342	355	346	355	724
District																			·
RevenC			1							1				1	1		-		
		_	1	226	226	226	226	226	226	226	226	226	226	10	10	10	10	10	
Expenditure <sup>31</sup>			1					·····											
O&M D				384	273	289	288	297	308	309	308	304	304	98	98	98		98	
Investment			13,480	0	0	0	0	634	0	0	0	0	2,026	0	0	0	0	0	-2,005
rivate (borrov	wer etc.)"									1				1					
Expenditure	1										-					-+-	+		
0&M				100	100	100	100	100	100	100	001	100	100	100	100	100 (	1001	100	
																1	-		
otal	Revenue (A)	L		1,189	1,189	1,217	1,217	1,217	1,248	1,248	1,248	1,248	1,248	1,032	1,032	1,032	1,032	1,032	
	O&M (B)		l	880	769	809	808	817	875	876 (	875	870	87U	665	665	665	665	665	
	Investment		17,291	100	109	104	109	1,608	113	100	109	104	3,078	100	113	100	109	100	-2,729
	A-B <sup>7)</sup>	_		309	420	408	409	400	373	372	373	378	378	368	368	368	368	368	
IRR	<u>N.A.</u>		-17,291	209	310	304	300	-1,208	260	272	264	273	-2,700	268	254	268	258	268	2,729
Grunt 807	-2%		-3,458	209	310	304	300	-1,208	260	272	264	273	-2,700	268	254	268	258	268	2,729
								l								].			
outine Budge	t of"		C-D	-158	-47	-63	-62	-71	-82	-83	-82	-78	-78	-38	-88	-88	-88	-88	
irus Perikana				19.9	5.9	8.0	7.8	9.0	10.3	10.5	10.3	9.8	9,8	1i.0	11.0	11.0	11.0	11.0	
erict	133,101 Juding income	%	{	0.12	0.04	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.07	<u> </u>

Notes: 1) Including incomes from operation of functional facilities and those fro transport truck, boat, etc. As for FAD, separately counting income that could absorb its renewal cost.

2) Including investment/renewal cost of functional facilities, FAD, transport truck, boat, etc., and separately counting those operation costs

3) In the case that could secure a grant fund of 80% of initial investment cost.

4) Counting only fish sale income by model boat operation and fishing license (ee

5) Including cost of model boat operation, surveillance activities as well as other activities such as education/training, mobilization/operation

6) Counting fuel cost of transport truck (added to income /expenses of the total. In the economic evaluation, included to the operation costs of functional facilities)

7) The balance not including investment cost. In the calculation of IRR, indicating the case of overall investment cost

8) As for reference, indicating deficit amount and those rate(%) out of annual budget of fishery office and that of district government.

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