CHAPTER B PROJECT ENGINEERING

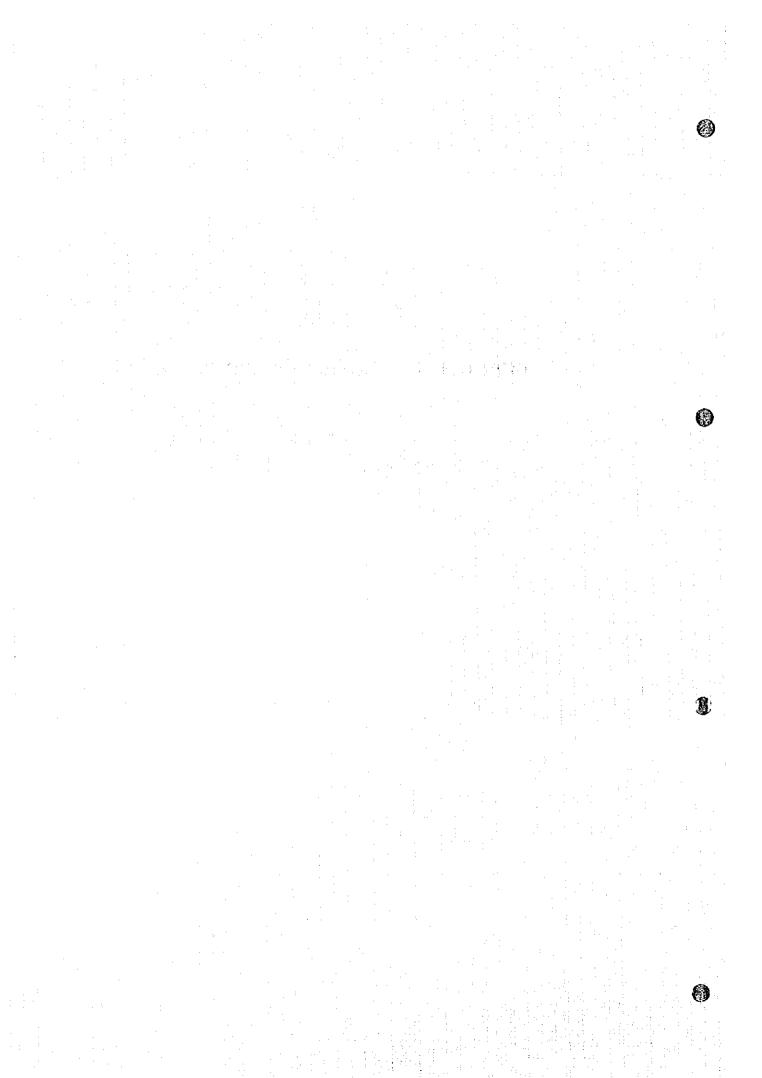


Table 8-1 INVENTORY OF EXISTING WATER SUPPLY FACILITIES

Name of Town / Village	Category of Water Source	Supply (m3/day)	Size of Facility	Remarks
Monduli Town	-TMA Pipeline	45	TMA∼Bp; φ6" GS pipe, L≒2.9km Bp; φ3" Pump 1 no. & Tank(5,000 gal)	Bp=Booster Pump
			Bp∼MCE; φ3" GS pipe, L≒3.1km & Elevated Tank(30,000 gal)	
	-Kilimani Spring -Rasharasha //	130 20	φ2" GS pipe, L≒4.5km φ2" GS pipe, L≒2.9km & Tanks (20,000 galx2)	To Monduli Town To Monduli Town
	-Lekishirititi // -Ardai Dam -Ardai Charco-1 -Ardai Charco-2	≒0 (113) (5) (45)	φ 2" GS pipe, L≒ ? km Dam, L=271m, B=4m, H=2m Dam, L=175m, B=3m, H=2m Dam, L≈148m, B=3m, H=2.5m	To MCE Breached Breached Breached
Lendikinya	-Lendikinya Spring -Alkaria Dam (old) -Alkaria Dam (new) -Mrandawa Dam	÷=0 - (142) (15)	Dam, L=250m, B=4m, H=7m Dam, L=210m, B=4m, H=6m Dam, L=106m, B=3m, H=2m	Breached Intake & LCT
 Fnguik	-Oldeani Spring	66	φ4" GS pipe, L≒4.6km & Tank(10.000 gal)	
1	-Enguik Dam	(51)	Dam, L=112m, B=4m, H=6m	For livestock
Arkatan	-Nongilili Cha-1 -Nongilili Cha-2 -Ardai Ranch Dam -Nadosoito Dam	(6) (19) (23) (362)	Dam, L=160m, B=3m, H=1m Dam, L=100m, B=2m, H=4m Dam, L=191m, B=5m, H=3m Dam, L=292m, B=4m, H=2m	With LCT Breached
1	-Loikumashi Dam -Nanja Dam -Rain harvesting-1	(5) (2,678) (400)	Dam, L= 60m, B=3m, H=6m Dam, L=320m, B=5m, H=7m Collector 10mx26.5m, & Tank (44,000 galx2)	
	-Rain harvesting-2	-	& Tallk (44, 000 galxe)	Collapsed
lossimingori	-Lossimingori Dam -Rasha Rasha Dam	(81) (48)	Dam, L=320m, B=4m, H=4m Dam, L=164m, B=4m, H=5m	With LCT Breached
Lepurkó	-Lepurko Dam -Kitasho Dam	(169) (40)	Dam, L=250m, B=4m, H=6m Dam, L=150m, B=3m, H=2m	
Meserani Juu	-TMA pipeline -Ngooi Kumen Dam	43 (77)	φ2" GS pipe, L≒6.7km Dam, L=327m, B=3m, H=12m	4 DWPs
Nengungu	-TMA pipeline -Komesha Dam	20 (0) (12)	1 DWP Dam, L=255m, B=4m, H=1m Dam, L=139m, B=4m, H=3m	Silted, Breached
:	-Hamsini Dam -Mboori Charco -Levi Dam	(10) (101)	Pit, H=3m, Dam, L=308m, B=4m, H=4m	No embankment
Moita Kiloriti	-Orngarwa Dam -Ekivuk Dam -Emao Ekivuk Dam	(95) (178) (67)	Dam, L=300m, B=2m, H=4m Dam, L=218m, B=4m, H=10m Dam, L=200m, B=3m, H=3m	LCT & DMP

Name of Town / Village	Category of Water Source	Supply (m3/day)	Size of Facility	Remarks
Moita Dwawani	-Ndulele Dam -Kilimatinde Cha.	(61) (10)	Dam, 1.=160m, B=3m, H=4m Dam, 1.=100m, B=3m, H=4m	
Meserani Bwawani	-Naalarami Dam -Olnjapatwa Dam -Meserani Dam	(97) (6) (750)	Dam, L=150m, B=2m, H=3m Dam, L=150m, B=3m, H=2m Dam, L=250m, B=2m, H=4m	Breached
Mbuyuni	-Mbuyuni Dam-1 -Mbuyuni Dam-2 -Mbuyuni Dam-3	(102) (13) (0)	Dam, L=340m, B=4m, H=3m Dam, L=149m, B=4m, H=3m Dam, L=300m, B=4m, H=7m	Breached, Silte
lølkisale	-Leteti Spring -Lengolwa " -Dug Wells	69 35 ?	φ2½ "GS pipe, L=415m	No facility Dig small pits
Tukusi	-Spring -River	11 77	φ2" Outlet Dig the riverbed	
Shkuyuni	-Borehole-1	135	φ 4" GS pipe, L≒4.1km, 1 Elevated Tank (10,000 gal) & 3 DWPs	
	-Borehole-2 -Makuyuni Dam -Lemiyoni Dam	(85) (16)	(No pipe system) Dam, L=200m, B=4m, H=5m Dam, L=160m, B=3m, H=2m	Pump broken
:	-J. K. T Dam-1 -J. K. T Dam-2 -J. K. T Dam-3	(65) (13) (19)	Dam, L=120m, B=2m, H=6m Dam, L=110m, B=3m, H=3m Dam, L=100m, B=3m, H=3m	Breached
Naitolia Sub-Village	-Naitolia Dam -Nguvukazi Dam	(23) (139)	Dam, L=350m, B=3m, H=3m Dam, L=350m, B=3m, H=4m	
Oltukai Sub-Village	-Oltukai Dam -Dug Wells	(264) ?	Dam, L=280m, B=2m, H=7m	Breached Dig the riverbed
Mswakini	-Mswakini Borehole	75	BH~Bp; φ3" PVC L≒1.5km Bp~Tk; φ2½ "GS L≒4.5km & Elev. Tank (10,000 gal)	5,000 gal. Tank Pipe broken
	-Mswakini Dam -Mswakini Charco	(45) (21)	Bp~LCT; φ 2" GS L≒ 2.1km Bp~MCO; φ 3" GS L≒ 8.5km Dam, L=370m, B=2m, H=2m Dam, L=330m, B=3m, H=4m	MCO=MIPCO Breached Breached
finairete	-Springs -Deep Well -Monduli Juu Dam -Soimineri Dam -Emairete Cha.	(271) (69) (15)	Dam, L=164m, B=4m, H=8m Dam, L=154m, B=4m, H=4m	High turbidity Hand pump broker For livestock

N.B. In the column of Supply, figures in () show the capcity of dams or charcos in 1,000 $\rm m^2$

Table B-2 EXISTING DAM AND RESERVOIR

S. No	Village	Name of Dam	Catchment Area (km2)	Storage (1.000 ਗੋ)	Reservoir Area (m²)
21	Monduli Town	Ardai C. No. 2	4. 28	(45)	(24, 700
28	Monduli Town	Ardai	36.68	(113)	(84, 700
30	Monduli Town	Ardai C. No. 1	0.80	(5)	(2,710
24	Lendikinya	Murandawa	0.56	15	13,800
25	Lendikinya	Alkaria(old)	14.80	(0)	(0
26	Lendikinya	Alkaria (new)	14.80	142	54,450
37	Enguik	Enguik	6.41	51	25,410
22	Arkatan	Nongilili-1	0.38	6	8,470
23	Arkatan	Nongilili-2	0.51	19	7,000
29	Arkatan	Ardai Ranch	27.19	(23)	(17,000
27	Arkatan	Nadosoito	32.83	362	209,090
34	Arkatan	Loikumashi	10.47	5	2,900
38	Arkatan	Nanja	122.53	2,678	630,000
9	Lossimingori	Lossimingori	5. 13	81	60.500
12	Lossimingori	Rasha Rasha	30.57	(48)	(24, 200
39	Lepurko	Kitasho	2.00	40	24, 200
40	Lepurko	Lepurko	4.00	169	72,600
15	Meserani Juu	Ngooi Kumen	44.85	77	38.720
19	Nengungu	Komesha	2.26	(0)	(0
20	Nengungu	Hamsini	0.24	12	10,89
31	Nengungu	Mboori C.	0.30	10	7.00
33	Nengungu	Levi	1.00	101	60,50
16	Moita Kiloriti	Orngarwa	4.63	95	63,53
17	Moita Kiloriti	Ekivuk	7.95	178	76, 23
18	Moita Kiloriti	Emao Ekivuk	5.36	67	57,480
42	Moita Bwawani	Ndulele	22.42	61	45, 38
11	Moita Bwawani	Kilimatinde C.	0.91	10	5,81
4	Meserani Bwawani	Naalarami	161.50	97	72,60
41	Meserani Bwawani	Olnjapatwa	32.06	6,	9,68
46	Meserani Bwawani	Meserani	186.69	(750)	(450,00
10	Mbuyuni	Mbuyuni No.1	21.06	102	72,60
13	Mbuyuni	Mbuyuni No.2	13.77	13	9,44
14	Mbuyuni	Mbuyuni No.3	87.88	(0)	(6
2	Makuyuni	Lemiyoni	2.13	16	24, 20
·7	Makuyuni	Makuyuni	224.83	85	36,30
43	Makuyuni J.K.T.	No-1	3.40	65	24, 201
44	Makuyuni J.K.T.	No-2	0.90	13	9.68
45	Makuyuni J.K.T.	No-3	12.12	(19)	(14, 52)
6	Nai tolia	Naitolia .	3.29	23	19,970
1	Naitolia	Nguvu Kazi	12.79	139	99,000
5	Oltukai	Oltukai	161.23	(264)	72,600
3	Mswakini	Mswakini No.1	29.15	(45)	(68,00)
8	Mswakini	Mswakini C.	1.70	(21)	(11,00)
32	Emairete	Soimineri	3.46	69	23,04
35	Emairete	Emairete	0.30	15	12,83
36	Emairete	Monduli Juu	8.05	271	77,40

N.B. () shows dams breached and figure 0 in the storage column shows dams heavily silted up.

Table B-3 EFFECTIVE RESERVOIR STORAGE IN 2014

S. No	Village	Name of Dam	Catchment Area(km2)	Storage (1,000㎡)	Reservoir Area (m²)
21	Monduli Town	Ardai C. No. 2	4.28	(0)	(0)
28	Monduli Town	Ardai	36.68	(36.3)	(84,700)
30	Monduli Town	Ardai C. No. 1	0.80	(0)	(0)
24	Lendikinya	Murandawa	0.56	8.8	13,800
25 -	Lendikinya	Alkaria (old)	-	-	-
26	Lendikinya	Alkaria (new)	14.80	111.1	54,450
37	Enguik	Enguik	6.41	0	0
22	Arkatan	Nongilili-1	0.38	1.8	8,470
23	Arkatan	Nongilili-2	0.51	13.4	7,000
29	Arkatan	Ardai Ranch	27.19	x	. x
27	Arkatan	Nadosoito	32.83	293.4	209,090
34	Arkatan	Loikumashi	10.47	0	0
38	Arkatan	Nanja	122.53	2,584.9	630,000
9	Lossimingeri	Lossimingori	5. 13	24.5	60,500
12	Lossimingori	Rasha Rasha	30.57	(0)	(0)
39	Lepurko	Kitasho	2.00	18.0	24,200
40	Lepurko	Lepurko	4.00	124.9	72,600
15	Meserani Juu	Ngooi Kumen	44.85	0	0
19	Nengungu	Komesha	2.26	(0)	_
20	Nengungu	Hamsini	0.24	9.4	10,890
31	Nengungu	Mboori C.	0 30	6.7	7,000
33	Nengungu	Levi	1.00	98.8	60,500
16	Moita Kiloriti	Orngarwa	4.63	44.0	63,530
17	Moita Kiloriti	Ekivuk	7.95	90.4	76.230
18	Moita Kiloriti	Emao Ekivuk	5.36	7.9	57,480
42	Moita Bwawani	Ndulele	22.42	14.1	45,380
11	Moita Bwawani	Kilimatinde C.	0.91	0	. 0
4	Meserani Bwawani	Naalarami	161.50	0	0
41	Meserani Bwawani	Olnjapatwa	32.06	0	0
46	Meserani Bwawani	Meserani	186.69	(608.1)	(450,000)
10	Mbuyuni	Mbuyuni No.1	21.06	58.0	72,600
13	Mbuyuni	Mbuyuni No.2	13.77	0	0
14	Mbuyuni	Mbuyuni No.3	87.88	(0)	(0)
2	Makuyuni	Lemiyoni	2.13	0	0
7	Makuyuni	Makuyuni	224.83	0	0
43	Makuyuni J.K.T.	No-1	3.40	27.5	24,200
44	Makuyuni J.K.T.	No - 2	0.90	3.1	9,680
45	Makuyuni J.K.T.	No-3	12.12	(0)	(0)
6	Naitolia	Naitolia	3.29	0	0
1	Naitolia	Nguvu Kazi	12.79	0	0
5	Oltukai	Oltukai	161.23	(141.5)	(72,600)
3	Mswakini	Mswakini No.1	29.15	(0)	(0)
8	Mswakini	Mswakini C.	1.70	(2.3)	(11,000)
32	Emairete	Soimineri	3.46	30.9	23,040
35	Emairete	Emairete	0.30	11.7	12,830
36	Emairete	Monduli Juu	8.05	182.3	77.400

()

N.B. () shows dams breached and figure 0 in the storage column shows dams heavily silted up.

Table B-4 WATER DEMAND IN 2014

()

C V	D 6 10 11	Popul	lation	Wate	er Consumpl	tive Us	e (m³/day)
S. No.	Name of Village	People (2014)	Livestock Unit	People	Livestock	Others	Depend on Dam
1	Lendikinya	6,295	5,503	188.9	137.6	16.3	342.8
2	Enguik	8,961	1,936	268.3	48.4	15.8	266.5
3	Arkatan	3,786	5, 458	113.6	136.5	12.5	262.6
4	Lossimingori	3,769	5, 158	113.1	129.0	12.1	254.2
5	Lepurko	6,665	9, 176	200.0	229.4	21.5	450.9
6	Meserani Juu	6.540	5, 555	196.2	138.9	16.8	185.9
7	Kengungu	3,036	1,761	91.1	44.0	6.8	120.9
8	Moita Kiloriti	3,692	5,740	110.8	143.5	12.7	267.0
9	Moita Bwawani	8,619	11.249	258.6	281.2	27.0	566.8
10	Meserani Bwawani	2,517	3, 628	75.5	90.7	8.3	174.5
11	Mbuyuni	8,107	2, 226	243.2	55.7	14.9	313.8
12	Lolkisale	9,634	8, 252	289.0	206.3	11.7	467.0
13	Tukusi	3,376	1, 228	101.3	30.7	6.6	127.6
14	Makuyuni	4,134	6, 212	124. 0	155.3	7.8	163.1
15	Naitolia Sub-Village	1,444	4, 413	43.3	110.3	7.7	161.3
16	Oltukai Sub-Village	726	5, 189	21.8	129.7	7.6	159.1
17	Mswakini	5,239	8,062	157.2	201.6	10.1	211.7
18	Emairete	10,241	4, 798	307.2	120.0	21.4	398.6
· · · · · · · ·	Total	131,635	99, 166	-	_	_	-

Table B-5(1) WATER BALANCE (PRESENT CONDITIONS)

Village Name : Lendikinya

Catchment Area (Km2)	es (km2)	15.36		Unit 9CU (m3/d)	(m3/d)	260.6		
Capaci	Storage Capacity (m3)	157,000		Reservoir Area (m2)	(m2)	68, 250		
÷				÷				
Day	Unit Dis- charge	Inflow to Dam		Evaporation	Wonthly Storage	Cumulative Storage	Actual Storage	Remarks
	(m3/km2/n)	(m3/m)	(田3/田)	(田3/用)	(田3/田)	(m2)	(EII3)	
		(1)	(5)	(3)	(4)=(1-2-3)	(2)	(9)	
31	0	0	8,079	10, 579	0.	•	0	
8	12, 600	193, 536	7,818	9,419	176, 300	176, 300	157,000	157,000 Max. Capacity
31	14,550	223, 488	8,079	7, 439	207, 970	384, 270	157,000	
31	9,900	152,064	8,079	9, 760	134, 226	518, 495	157,000	
28	11,250	172,800	7, 297	7,849	157,654	676, 150	157,000	
31	21,450	329, 472	8,079	7,849	313, 545	989, 694	157,000	
30	32,850	504, 576	7,818	7,371	489, 387	1,479,081	157,000	
ដូ	12,450	191, 232	8,079	6,552	176, 601	1,655,683	157,000	
30	Ο.	0	7,818	6, 757	-14, 575	1,641,108	142, 425	
31	0	0	8,079	6, 552	-14,631	1,626,477	127, 795	
31	0	. 0	8,079	9,077	-17, 156	1,609,322	110,639	
30	0	Ó	7,818	11,876	-19,694	1, 589, 628	90,945	
31	0	0	8,079	10, 579	-18,657	1, 570, 971	72, 288	Storage Ratio: 48%

Table B-5(2) WATER BALANCE (PRESENT CONDITIONS)

: Enguik
Name
Village

	·	-	Komatks				cacity											Storage Ratio: 41%
			Actual Storage	(m3)	(8)	0	51,000 Max. Caracity	51,000	51,000	51,000	51,000	51,000	51,000	45,895	40, 781	34, 726	27,716	21, 102 Storage
86,3	25, 410	. •	Cumulative Storage	(B3)	(2)	0	74,670	162, 491	219,641	286, 415	418, 312	623, 547	698, 237	693, 132	688,018	681,963	674,953	668, 339
			Monthly Storage	(m3/m)	(4) = (1-2-3)	•	74, 570	87,821	57, 150	66, 774	131,897	205, 235	74,690	-5, 105	-5, 115	-6,055	-7,010	-6,614
Unit WCU (m3/d)	Reservoir Area (m2)		Evaporation	(田3/田)	(8)	3, 939	3, 507	2,770	3,634	2,922	2,922	2,744	2, 439	2,516	2,439	3, 380	4, 421	3,939
			<u></u>	(m3/m)	(S)	2,675	2, 589	2,675	2,675	2,416	2,675	2, 589	2,675	2, 589	2,675	2,675	2, 589	2,675
6.41	51, 000		Inflow to Dam	(田3/田)	(1)	0	80, 766	93, 266	63, 459	72, 113	137, 495	210, 569	79,805	0	0	0	0	0
	(m3)		Unit Dis- charge	(m3/km2/m)		0	12,600	14,550	006 6	11,250	21,450	32,850	12,450	0	0	.	O	0
Catchment Area (km2)	Storage Capacity (m3)		Day			31	30	31	31	28	31	စ္တ	31	30	31	83	-30	31
ð	Stora		Month			10	11	12	,-4	63	œ	ঘ	ഗ	ဖ	t	ø	ത	10

Table B-5(3) WATER BALANCE (PRESENT CONDITIONS)

Village Name : Arkatan

સુ	Catchment Area (km2)	(km2)	166.72		Unit WCU (m3/d)		218.4		
Stora	Storage Capacity (m3)	(EE)	3, 070, 000		Reservoir Area (m2)		857, 460		
Month	Day	Unit Dis- charge	Inflow to Dam	1 2	Evaporation	Konthly Storage	Oumulative Storage	Actual Storage	Remarks
		(m3/km2/n)	(m3/m)	(n3/n)	(田3/田)	(田3/田)	(EII3)	(H3)	
			(1)	(2)	(3)	(4) = (1-2-3)	(2)	(9)	
10	31	0	0	6, 770	132, 906	. Ø		0	
11	8	12, 600	2, 100, 672	6,552	118, 329	1, 975, 791	1, 975, 791	1, 975, 791	
12	31	14,550	2, 425, 776	6, 770	93, 463	2, 325, 542	4, 301, 333	3,070,000	3,070,000 Max. Capacity
₽₹	18	6, 900	1, 650, 528	6, 770	122, 617	1, 521, 141	5, 822, 474	3,070,000	
7	28	11,250	1,875,600	6,115	98, 608	1, 770, 877	7, 593, 351	3,070,000	
ಣ	31	21,450	3, 576, 144	6, 770	98, 603	3, 470, 766	11,064,116	3,070,000	
4	30	32, 850	5, 476, 752	6,552	92, 606	5, 377, 594	16, 441, 711	3,070,000	
ഗ	31	12,450	2,075,664	. 6,770	82, 316	1,986,577	18, 428, 288	3,070,000	
ن و	80		0	6, 552	84, 889	-91, 441	18, 336, 848	2,978,559	
1	31	0	0	6, 770	82, 316	-89, 087	18, 247, 761	2,889,473	
·, ∞	31	0	: 0	6, 770	114,042	-120,813	18, 126, 948	2, 768, 660	
6	30	0	0	6,552	149, 198	-155, 750	17, 971, 198	2,612,910	
10	31	0	0	6, 770	132, 906	-139, 677	17,831,522	2, 473, 234	Storage Ratio: 80%

0

Table B- 5(4) WATER BALANCE (PRESENT CONDITIONS)

Village Name : Lossimingori

		Remarks					Max. Capacity										Storage Ratio: 7.5%
		Actual Storage	(EII)	(9)	0	49, 398	81,000 Ms	81,000	81,000	81,000	81,000	81,000	68,120	55, 191	40,024	22, 606	6, 107
229.7	60, 500	Cumulative Storage	(EH3)	(5)	0	49, 398	110,324	145, 339	189, 663	285, 623	440,718	491,658	478,778	465, 849	450,682	433, 264	416, 766
		Monthly Storage	(n3/m)	(4)=(1-2-3)	0	49, 398	60,926	35,015	44, 323	95, 960	155, 096	50, 940	-12, 581	-12, 929	-15, 167	-17, 418	-16, 498
Unit WCU (m3/d)	Reservoir Area (m2)	Evaporation	(田3/田)	(3)	9,378	8,349	6, 595	8, 652	6,958	6,958	6,534	5, 808	5,990	5,808	8,047	10, 527	9,378
	6		(m3/m)	(2)	7, 121	6,891	7, 121	7, 121	6,432	7, 121	6,891	7, 121	6,891	7, 121	7, 121	6,891	7, 121
.13	1,000	Inflow to Dam	(元8/元)	(1)	0	64, 638	74,642	50, 787	57, 713	110,039	168, 521	63, 869	0	0	0	0	
(кы2) 5.	(ш3) 81	Unit Dis- charge	(国3/16四2/四)		0	12,600	14,550	9,900	11,250	21,450	32,850	12, 450	• ·	Ö	0	0	O
Catchment Area (km2)	Storage Capacity (m3)	Дау			31	30	31	31	82	31	80	33.	30	31	31	30	31
පී	Stor	Month			10	11	12	÷	73	က	4	ഗ	9	1	∞	o.	10

Table B- 5(5) WATER BALANCE (PRESENT CONDITIONS)

Village Name : Lepurko

			Remarks			.0	93	84	84	20	209, 000 Max. Capacity	00	 30 ·	98	83	. 3 6	74	82, 933 Storage Ratio: 403
			Actual Storage	(元)	(9)		49, 993	114,084	146,984	191,920	209, 00	209,000	209,000	187, 168	165, 218	139, 686	110, 594	82, 93
408.3	96, 800		Cumulative Storage	(m3)	(5)		49, 993	114,084	146,984	191,920	296, 831	471, 227	523, 977	502, 145	480, 195	454,663	425, 571	397, 910
		. •	Monthly Storage	(m3/m)	(4) = (1-2-3)	0 :	49, 993	64,092	32, 900	44, 936	104,911	174, 397	52,750	-21,832	-21,950	-25, 532	-29, 092	-27, 661
Unit WCU (m3/d)	Reservoir Area (m2)		Evaporation	(田3/田)	(3)	15,004	13, 358	10,551	13,842	11, 132	11, 132	10,454	9, 293	9, 583	9, 293	12,874	16,843	15,004
			DO _B	(田3/田)	(i)	12,657	12, 249	12,657	12, 657	11,432	12, 657	12, 249	12,657	12, 249	12,657	12,657	12, 249	12, 657
9	209, 000		Inflow to Dam	(m3/m)	(1)	0	75, 600	87, 300	59, 400	67, 500	128, 700	197, 100	74, 700	0	0	•	0	0
			Unit Dis- charge	(m3/km2/m)		© :	12,600	14,550	9,900	11,250	21,450	32,850	12,450	0	0	0	0	٥
Catchment Area (km2)	Storage Capacity (m3)		Day			ដ	08	31	31	28	31.	၀င	31	30	31	31	83	31
	Str		Month			10	11	12	-4	83	က	4*	ဖာ	9	~	8	თ	10

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Table B- 5(6) WATER BALANCE (PRESENT CONDITIONS)

Village Name : Meserani Juu

	Catchment Area (km2)	(km2)	44.85		Unit Wou (m3/d)	:	177.6		
€3	Storage Capacity (m3)	(EE3)	77,000		Reservoir Area (m2)		38, 720		
Month	Day	Unit Dis- charge	Inflow to Dam	D	Evaporation	Konthly Storage	Cumulative Storage	Actual Storage	Remarks
		(n3/kn2/n)	(田3/田)	(田3/田)	(田3/田)	(田3/田)	(113)	(ш3)	
		:	(1)	(2)	(3)	(4)=(1-2-3)	(2)	(9)	
20	31	O	0	5, 506	6,002	0		0	
II	တ္ထ	12,600	565,110	5,328	5,343	554, 439	554, 439	77,000 Max. Capacity	acity
12	31	14,550	652, 568	5, 506	4,220	642, 841	1, 197, 280	77,000	
	31	9, 900	444,015	5, 506	5, 537	432,972	1, 630, 253	77,000	
63	53	11,250	504, 563	4,973	4,453	495, 137	2, 125, 389	77,000	
က	31	21,450	962, 033	5, 506	4,453	952,074	3, 077, 464	77,000	
4	30	32,850	1, 473, 323	5, 328	4, 182	1, 463, 813	4, 541, 276	77,000	
S	31	12,450	558, 383	5, 506	3,717	549, 160	5,090,436	77,000	
9	30	0	0	5, 328	3,833	-9, 161	5,081,275	67,839	
7	31	0	0	5, 506	3,717	-9, 223	5,072,052	58, 616	
χ	ត	Ö,	•	5, 506	5, 150	-10,655	5,061,397	47, 961	
6	8	0	0	5,328	6, 737	-12,065	5,049,331	35, 895	
10	33	•	0	5, 506	6,002	-11, 507	5,037,824	24, 388 Storage Satio: 32%	Satio: 32%

Table B- 5(7) WATER BALANCE (PRESENT CONDITIONS)

Village Name : Nengungu

ž	chment Arc	Catchment Area (km2)	1.54		Unit WCU (m3/d)	(P/EW)	82.5		
Stors	Storage Capacity (m3)	ty (m3)	123,000		Reservoir Area (m2)	(m2)	78, 390		
Month	Day	Day Unit Dis- charge	Inflow to Dam	D _a	Evaporation	Monthly Storage	Cumulative Storage	Actual Storage	Remarks
		(m3/km2/m)	(H3/H)	(m3/m)	(田3/田)	(田3/田)	(EH)	(m3)	
	-		(1)	(3)	(3)	(4) = (1-2-3)	(5)	(9)	
91	31	0		2,558	12, 150	0	0	0	
=======================================	8	12,600	19,404	2,475	10,818	6, 111	6, 111	6, 111	
12	31	14,550	22, 407	2,558	8, 545	11,305	17,416	17,416	
	31	9,900	15, 246	2,558	11,210	1,479	18,895	18,895	
27	28	11,250	17,325	2,310	9,015	6,000	24,895	24,895	
က	31	21,450	33, 033	2,558	9,015	21, 461	46, 356	46, 356	
4	8	32,850	50, 589	2,475	8,466	39,648	86,004	86,004	
ن	31	12,450	19, 173	2, 558	7, 525	9, 090	95, 094	95,094	
\$	8	0	0	2,475	7,761	-10,236	84,853	84,858	
	31	0	0	2,558	7,525	-10,083	74,775	74, 775	
∞	31	0	Φ	2,558	10,426	-12,983	61, 792	61, 792	
ග	30	0	0	2,475	13,640	-16,115	45, 677	45, 677	
10	31	0	0	2,558	12, 150	-14,708	30, 969	30, 969 Sto	30,969 Storage Ratio: 25%

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Table B-5(8) WATER BALANCE (PRESENT CONDITIONS)

Kiloriti
: Moita
Name
Village

ඵ	Catchment Area (km2)	(Jen2)	17.94		Unit WCU (m3/d)	(p/gir)	234.3		
Stor	Storage Capacity (m2)	(日3)	340,000		Reservoir Area (m2)	(m2)	197,240		
	v .				*:				
Month	Day	Unit Dis- charge	Inflow to Dam		Evaporation	Monthly Storage	Oumulative Storage	Actual Storage	Remarks
		(田3/大田2/田)	(田3/田)	(田3/田)	(m3/m)	(m3/m)	(m3)	(EH)	
			(1)	(2)	(3)	(4) = (1-2-3)	(2)	(9)	
10	31	0	0	7, 263	30, 572	0	•	0	
11	30	12,600	226,044	7,029	27, 219	191, 796	191, 796	191, 796	
12	31	14,550	261,027	7, 263	21,499	232, 265	424,060	340,000	Max. Capacity
H	31	9,900	177, 606	7, 263	28, 205	142, 137	866, 198	340,000	
C3	88	11,250	201,825	6, 560	22, 683	172, 582	738,780	340,000	
ന	31	21,450	384, 813	7, 263	22, 683	354, 867	1,093,647	340,000	
4	30	32,850	589, 329	7,029	21, 302	560,998	1,654,645	340,000	
ß	31	12,450	223, 353	7, 263	18,935	197, 155	1,851,800	340,000	
9	30	0		7,029	19, 527	-26, 556	1,825,244	313, 444	
2	31	0	0	7,263	18,935	-26, 198	1,799,046	287, 246	
90	18	• • • • • • • • • • • • • • • • • • •	0	7, 263	26, 233	-33, 496	1, 765, 549	253, 750	
o,	30	O	0	7,029	34, 320	-41,349	1, 724, 201	212, 401	
10	31	0	0	7, 263	30, 572	-37,836	1,686,365	174, 565	Storage Ratio: 51%

Table B- 5(9) WATER BALANCE (PRESENT CONDITIONS)

Village Name : Moita Bwawani

445.9	51, 190		Cumulative Actual Remarks Storage Storage	(田3) (田3)	(5) (6)	0 0	273, 517 71,000 Max. Capacity	593, 566 71, 000	803, 390 71, 000	1,047,480 71,000	1,528,199 71,000	2, 275, 684 71, 000		4, 545, 450				
	· .		Monthly Storage	(m3/m)	(4) = (1-2-3)	0	273, 517	320,049	209, 824	244, 090	480, 719	747, 485	271,721		-18, 445	-18, 445 -18, 737	-18, 445 -18, 737 -20, 631	-18, 445 -18, 737 -20, 631 -22, 284
Unit WCU (m3/d)	Reservoir Area (m2)		Evaporation	(田3/田)	(3)	7,934	7,064	5, 580	7,320	5,887	5,887	5, 529	4,914		5,068	5,068	5,068 4,914 6,808	5, 068 4, 914 6, 808 8, 907
	i DC;		10g	(m3/m)	(S)	13,823	13, 377	13,823	13,823	12,485	13,823	13, 377	13,823		13, 377	13, 377	13, 377 12, 823 13, 823	13, 377 12, 823 13, 823 13, 377
23, 33	71,000		Inflow to Dam	(田3/田)	(1)	•	293, 958	339, 452 · ·	230, 967	262, 463	500, 429	766, 391	290, 459		0	• • • • • • • • • • • • • • • • • • •	0 0	0 0 0
		: -	Unit Dis- charge	(n3/kn2/n)		0	12,600	14,550	9, 900	11,250	21,450	32,850	12,450	c	>	> 0	> o o	> 0 0 0
Catchment Area (km2)	Storage Capacity (m3)		Day		•	31	30	31	31	53	31	30	31	30	}	8 5	31 31	3 17 8 8 8 17 8
ීජ	Stor		Month			10	11	12	ы	63	es	4	വ	ď	>	·	· ~ ∞	> r~ ∞ o

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Table B-5(10) WATER BALANCE (PRESENT CONDITIONS)

Bwawani
Meserani
••
Name
Village

82, 280 139.1

Unit Wou (m3/d)

103,000 193.56

Catchment Area (km2)

Store	Storage Capacity (m3)		103, 900	ns	reservoir area (m2/		06, 600		
Month	Day	Unit Dis- charge	Inflow to Dam		Evaporation	Monthly Storage	Cumulative Storage	Actual Storage	Remarks
		(m3/km2/m)	(田3/田)	(田3/田)	(m3/m)	(m3/m)	(H3)	(EE3)	
			(1)	(2)	(3)	(4) = (1-2-3)	(2)	(9)	
10	 E	0	0	4,312	12, 753	0	0	0	
11	30	12,600	2, 438, 856	4, 173	11,355	2, 423, 328	2, 423, 328	103,000	Max. Capacity
12	31	14,550	2,816,298	4, 312	8,969	2, 803, 017	5, 226, 346	103,000	
, -1	31	9,900	1,916,244	4,312	11,766	1,900,166	7, 126, 512	103,000	
63	· 88	11, 250	2, 177, 550	3,895	9,462	2, 164, 193	9, 290, 705	103,000	
ന	18	21,450	4, 151, 862	4,312	9,462	4, 138, 088	13, 428, 792	103,000	
e)·	30	32,850	6, 358, 446	4,173	8,886	6, 345, 387	19, 774, 179	103,000	
ശ	31	12, 450	2, 409, 822	4,312	7,899	2, 397, 611	22, 171, 790	103,000	
ဖွ	30	0 : :	0	4, 173	8, 146	-12,319	22, 159, 471	50,681	
7	31	0	0	4,312	7,899	-12,211	22, 147, 260	78,470	
œ	31	0	0	4,312	10, 943	-15, 255	22, 132, 005	63, 215	
თ	30	. 0	•	4, 173	14, 317	-18, 490	22, 113, 515	44,725	
10	31	0	0	4,312	12, 753	-17,066	22, 096, 450	27,660	27,660 Storage Ratio: 27%

Table B- 5(11) WATER BALANCE (PRESENT CONDITIONS)

Village Name : Mbuyuni

ී	Catchment Area (km2)	1 (k=2)	122.71	:	Unit WCU (m3/d)		160.6		
Stor	Storage Capacity (m3)	/ (m3)	115,000		Reservoir Area (m2)		82, 040		
Month	Day	Day Unit Dis-	Inflow to Dam	D S	Evaporation	Monthly Storage	Cumulative Storage	Actual Storage	Remarks
		(m3/km2/m)	(田3/田)	(m3/m)	(加3/四)	(用3/用)	(四3)	(知)	
-			(1)	(2)	(3)	(4) = (1-2-3)	(5)	(9)	
10	i i	0	0	4,979	12,716	0	0	0	
11	30	12,600	1, 546, 146	4, 318	11, 322	1, 530, 006	1, 530, 006	115,000 Max. Capacity	ax. Capacity
21	泛	14,550	1, 785, 431	4,979	8,942	1, 771, 510	3, 301, 516	115,000	
	31	9, 900	1, 214, 829	4,979	11, 732	1,198,119	4, 499, 635	115,000	
63	28	11,250	1, 380, 488	4,497	9, 435	1,366,556	5,866,191	115,000	
က်	31	21,450	2, 632, 130	4,979	9, 435	2,617,716	8, 483, 907	115,000	
4	30	32,850	4,031,024	4,818	8,860	4,017,345	12, 501, 252	115,000	
κ	31	12, 450	1, 527, 740	4,979	7,876	1,514,885	14,016,137	115,000	
Q.	30	o	0	4,818	8, 122	-12,940	14,003,197	102, 060	
-	31	0	0	4,979	7,876	-12,854	13, 990, 343	89, 206	
ø	31	0	0	4,979	10,911	-15,890	13, 974, 453	73,316	
6	30	0	0	4,818	14, 275	-19,093	13, 955, 360	54, 223	
22	31	0	: • 0	4,979	12, 716	-17, 695	13, 937, 665	36, 528 St	36, 528 Storage Ratio: 32%
			:		:				

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Table B- 5(12) WATER BALANCE (PRESENT CONDITIONS)

Village Name : Makuyuni Town

.	Catchment Area (km2)	(km2)	231.26		Unit WCU (m3/d)		234.8		
Stor	Storage Capacity (m3)	(m3)	179,000	14	Reservoir Area (m2)	(田2)	94,380		
Month	Day	Unit Dis- charge	Inflow to Dam	DQ.	Evaporation	Monthly Storage	Cumulative Storage	Actual Storage	Renarks
		(n3/kn2/n)	(田3/田)	(田3/田)	(田3/田)	(田3/田)	(田3)	(EB)	
			(1)	(2)	(3)	(4) = (1-2-3)	(2)	(9)	
10	83	0	0	7,279	14,629	0	0	0	
11	30	12,600	2, 913, 876	7,044	13,024	2, 893, 808	2, 893, 808	179,000	179,000 Max. Capacity
12	31	14,550	3, 364, 833	7, 279	10,287	3, 347, 267	6, 241, 074	179,000	
7	ಕ	9,900	2, 289, 474	7,279	13, 496	2, 268, 699	8, 509, 773	179,000	
2	28	11,250	2,601,675	6,574	10,854	2, 584, 247	11,094,020	179,000	
ന	31	21,450	4, 960, 527	7,279	10,854	4,942,395	16,036,415	179,000	
4	30	32,850	7, 596, 891	7,044	10, 193	7, 579, 654	23, 616, 069	179,000	
េ	31	12,450	2, 879, 187	7, 279	9,060	2, 862, 848	26, 478, 916	179,000	-
9	30	O		7,044	9,344	-16,388	26, 462, 529	162, 612	
7	31	0		7,279	9,060	-16, 339	26, 446, 189	146, 273	
00	31	0	0	7, 279	12,553	-19,831	26, 426, 358	126, 442	
ō,	30	0	0	7,044	16, 422	-23, 466	26, 402, 892	102, 976	
10	318	0	0	7, 279	14,629	-21,908	26, 380, 984	81,068	Storage Ratio: 45%

Table B- 5(13) WATER BALANCE (PRESENT CONDITIONS)
Village Name : Naitolia

	Catchment Area (km2)	(KH2)	16.08		Unit WOU (m3/d)		176.2		
	Storage Capacity (m3)	(m3)	162,000		Reservoir Area (m2)		118, 970		
) :					
Month	т Дау	Unit Dis- charge	Inflow to Dam	B	Evaporation	Monthly Storage	Oumulative Storage	Actual Storage	Remarks
		(m3/km2/m)	(m3/m)	(田3/田)	(m3/m)	(m3/m)	(H3)	(m3)	
			(1)	(2)	(3)	(4) = (1-2-3)	(5)	(8)	
10	31	0	0	5,462	18,440	0		Ö	
11	08	12,600	202, 608	5, 286	. 16, 418	180,904	180,904	162,000	162,000 Kax. Capacity
12	31	14,550	233, 964	5,462	12, 968	215, 534	396, 438	162,000	
H	31	9,900	159, 192	5, 462	17,013	136, 717	533, 155	162,000	
77	28	11,250	180, 900	4,934	13,682	162, 285	695, 440	162,000	
က	31	21,450	344,916	5, 462	13, 682	325, 772	1,021,212	162,000	
*	30	32,850	528,228	5, 286	12,849	510,093	1, 531, 306	162,000	
ഗ	31	12,450	200, 196	5, 462	11, 421	183, 313	1, 714, 618	162,000	
φ	30	O	0	5, 286	11,778	-17,064	1,697,554	144, 936	
!-	31	0	0	5,462	11, 421	-16,883	1,680,671	128,053	
•	31	0	0	5,462	15,823	-21,285	1,659,386	106, 767	
თ	30	•	0	5, 286	20, 701	-25,987	1,633,399	80, 781	
10	31	0	0	5, 462	13,440	-23, 903	1, 609, 496	56,878	Storage Ratio: 25%

Table B-5(14) WATER BALANCE (PRESENT CONDITIONS)

Village Name : Emairete

		Remarks						Mex. Capacity									255, 796 Storage Ratio: 72%
		Actual Storage	(日3)	(8)	\$	128, 315	282, 782	355,000	355,000	355,000	355,000	355,000	338, 926	323, 030	302,943	278, 374	255, 796
162.0	113, 270	Omulative Storage	(m3)	(5)	0	128, 315	282, 782	378, 481	493, 782	729, 058	1,099,923	1,231,062	1,214,988	1, 199, 092	1,179,005	1,154,436	1, 131, 858
	-	Monthly Storage	(田3/田)	(4) = (1-2-3)	0	128,315	154, 467	95, 699	115,300	235, 276	370, 865	131, 139	-16,074	-15,896	-20,087	-24, 569	-22, 579
Unit WCU (m3/d)	Reservoir Ares (m2)	Evaporation	(m3/m)	(3)	17, 557	15,631	12,346	16, 198	13,026	13,026	12, 233	10,874	11,214	10,874	15,065	19, 709	17, 557
	64	ig E	(田3/田)	(2)	5, 022	4,860	5,022	5,022	4,536	5,022	4,860	5,022	4,860	5,022	5,022	4,860	5,022
11.81	355, 000	Inflow to Dan.	(田3/田)	(1)	0	143, 806	171,836	116,919	132, 863	253, 325	387,959	147,035	0	0	0	0	0
	:	Unit Dis- charge	(m3/km2/m)		0	12, 600	14,550	9,900	11,250	21,450	32,850	12, 450	0	0	0	0	•
Catchment Area (km2)	Storage Capacity (m3)	Day			31	30	33	31	28	31	30	 69	တ္ထ	31	37	30	:I
Çs	Stora	Month			10	- #	12	-	63	m	4		φ	t	ø	o,	10

Table B-6(1) WATER BALANCE (AT TARGET YEAR - 1)

Village Name : Lendikinya

ජ	Catchment Area (Acm2)		15.36		(P/8H) NMA		326.5		
Ston	Storage Caracity (m3)	(H3)	119,900		Reservoir Area (m2)		68, 250		
Month	Day	Unit Dis- charge	inflow to Dam	no _t	Evaporation	Monthly Storage	Cumulative Storage	Actual Storage	Remarks
	•	(B3/KB2/E)	(m3/m)	(四3/五)	(田3/田)。	(用3/用)	(m3)	(EH)	
			(1)	(3)	(8)	(4) = (1-2-3)	(5)	(9)	
63	, 88 87	0	0	9,142	7,849	· •	0	0	
က	31	31, 184	478, 986	10,122	7,849	461,016	461,016	119, 900	
4	30	37, 530	576, 461	9, 795	7,371	559, 295	1,020,311	119, 900	119,900 Max. Capacity
വ	31	Ó	0	10, 122	6, 552	-16,674	1,003,637	103, 227	
ø	8	0	: O	9,795	6, 757	-16,552	987,086	86, 675	
7	31	Ο,	0	10, 122	6, 552	-16,674	970, 412	70,001	
∞	31	0	: oʻ	10, 122	9,077	-19, 199	951, 213	50, 803	
o,	30	0	0	9, 795	11,876	-21,671	929, 543	29, 132	
01	31	0	0	10, 122	10, 579	-20,700	908, 843	8,432	
ជ	30	O	0	9, 795	9,419	-19, 214	889, 629	-10, 782	Storage Ratio: 0%
12	31	0	0	10, 122	7, 439	-17, 561	872,068	-28, 343	-
-	31	0	0	10, 122	8,760	-19,881	852, 187	-48, 224	
61	88	0	© .	9, 142	7,849	-16,991	835, 196	-65, 215	

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Table B- 6(2) WATER BALANCE (AT TARGET YEAR - 1)

Village Name : Arkatan

			Remarks					Max. Capacity										1,742,433 Storage Ratio: 60%
			Actual Storage	(EE)	(9)	0	2, 893, 500	2,893,500 Max. Capacity	2, 803, 709	2, 711, 605	2, 621, 814	2, 500, 404	2, 344, 208	2, 203, 998	2,078,566	1, 977, 666	1,847,710	1, 742, 433
250.1	854, 560		Oumulative Storage	(m3)	(2)	0	4, 766, 473	10, 530, 740	10, 440, 949	10, 348, 844	10, 259, 053	10, 137, 644	9,981,447	9,841,237	9, 715, 805	9, 614, 905	9, 484, 950	9, 379, 673
()			Monthly Storage	(m3/m)	(4) = (1-2-3)	0	4, 766, 473	5, 764, 267	-89, 791	-92, 104	-89, 791	-121, 410	-156, 196	-140,210	-125, 432	-100,900	-129,955	-105,277
nata (Reservoir Arca (m2)		Evaporation	(m3/m)	(3)	98, 274	98, 274	92, 292	82,038	84, 601	82, 038	113,656	148, 693	132, 457	117,929	93, 147	122, 202	98, 274
			ධ්ය	(m3/m)	(2)	7,003	7,753	7,503	7,753	7,503	7,753	7, 753	7,503	7,753	7,503	7,753	7,753	7,003
156.25	2, 893, 500		Inflow to Dam	(m3/m)	(1)	0	4,872,500	5, 864, 063	0	0	. 0	0	0		,		0	0
_		-	Unit Dis- charge	(n3/kn2/n)		0	31, 184	37, 530	: 0	0	0	:•	0	0	0	0	0	0
Catchment Area (km2)	Storage Capacity (m3)		Day			28	31	30	31	30	31	31	စ္တ	31	စ္တ	31	31	28
ී	Stor		Month			73	ო	4	ഗ	9	~	∞ .	თ	01	TI.	12	ы	61

Table B- 6(3) WATER BALANCE (AT TARGET YEAR - 1)

Village Name : Lossimingori

24,500 Reservoir Area (m2) 60,500 inflow to Dam WCU Svaporation Nonthly Storage Storage (m3/m) (m3/m) (m3/m) (m3/m) (m3/m) (m3) (1) (2) (3) (4)=(1-2-3) (5) (6) 0 6,779 6,958 145,511 145,511 24,500 192,529 7,263 6,958 145,511 145,511 24,500 0 7,505 5,808 -13,253 297,678 -2,066 0 7,505 6,808 -13,253 297,678 -2,066 0 7,505 8,047 -15,552 268,813 -30,930 0 7,505 8,047 -15,552 268,813 -30,930 0 7,505 8,949 -15,612 218,523 -48,720 0 7,505 8,949 -15,612 218,528 -91,215 0 7,505 6,595 -14,100 204,429 -95,315 0 7,505 6,595 -16,136 11,471 0 7,505 6,595 -11,136 11,471	Catchment Area (km2)		5.13	· .	UMCU (m3/d)		242. 1		
Inflow to Dam WCU Swappration Storage Monthly Storage Chumulative Storage Actual Storage (m3/m) (m3/m) (m3/m) (m3/m) (m3/m) (1) (2) (3) (4)=(1-2-3) (5) (6) 0 6,779 6,958 145,511 145,511 24,500 159,974 7,505 6,958 173,132 324,243 24,500 192,529 7,505 5,808 -13,313 310,930 11,187 0 7,505 5,808 -13,253 297,678 -2,066 0 7,505 8,047 -15,552 268,813 -30,930 0 7,505 8,047 -15,552 268,813 -30,930 0 7,505 9,378 -16,883 234,140 -65,603 0 7,505 9,378 -16,883 -16,100 204,429 -95,315 0 7,505 6,595 -14,100 204,429 -95,315 0 7,505 8,652	Storage Capacity (m3)	•	24, 500		Reservoir Area (00, 500		
(13/元) (元3/元) (元3/元	Unit Dis- charge	, 9	Inflow to Dam	no _#	Evaporation	Monthly Storage	Cumulative Storage	Actus! Storage	Remarks
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	(田3/大田2/田)		(田3/田)	(田3/田)	(田3/田)	(田3/田)	(m3)	(m3)	
6,779 6,958 0 0 7,505 6,958 145,511 145,511 24,500 7,263 6,534 178,732 324,243 24,500 7,505 5,808 -13,313 310,930 11,187 7,505 5,808 -13,253 297,678 -2,066 7,505 8,047 -15,552 268,813 -30,930 7,505 8,047 -15,552 268,813 -30,930 7,505 9,378 -15,552 268,813 -30,930 7,505 9,378 -15,612 251,023 -48,720 7,505 9,378 -15,612 218,528 -81,215 7,505 6,595 -14,100 204,429 -95,315 7,505 8,652 -14,100 204,429 -95,315 7,505 8,652 -16,157 188,272 -111,471 6,779 6,958 -13,736 174,536 -125,207			(1)	છ		(4) = (1-2-3)	(2)	(9)	
7,505 6,958 145,511 24,500 7,263 6,534 178,732 324,243 24,500 7,505 5,808 -13,313 310,930 11,187 7,263 5,808 -13,253 297,678 -2,066 7,505 8,047 -15,552 268,813 -30,930 7,505 8,047 -15,552 268,813 -30,930 7,505 9,378 -16,883 251,023 -48,720 7,505 9,378 -16,883 234,140 -65,603 7,505 6,378 -15,612 218,528 -91,215 7,505 6,595 -14,100 204,429 -95,315 7,505 8,652 -16,157 188,272 -111,471 6,779 6,958 -13,736 174,636 -125,207	0		0	6, 779	6,958	0		0	
7, 263 6, 534 178, 732 324, 243 24, 500 7, 565 5, 808 -13, 313 310, 930 11, 187 7, 263 5, 990 -13, 253 297, 678 -2, 066 7, 505 8, 047 -15, 552 268, 813 -30, 930 7, 263 10, 527 -17, 790 251, 023 -48, 720 7, 505 9, 378 -16, 883 234, 140 -65, 603 7, 263 8, 349 -15, 612 218, 528 -81, 215 7, 505 6, 595 -14, 100 204, 429 -95, 315 7, 505 8, 652 -16, 157 188, 272 -111, 471 6, 779 6, 958 -13, 736 174, 536 -125, 207	31, 184		159, 974	7,505	6,958	145,511	145,511	24, 500	Max. Capacity
5,808 -13,313 310,930 11,187 5,990 -13,253 297,678 -2,066 5,808 -15,313 284,365 -15,379 8,047 -15,552 268,813 -30,930 10,527 -17,790 251,023 -48,720 9,378 -16,883 234,140 -65,603 8,349 -15,612 218,528 -81,215 6,595 -14,100 204,429 -95,315 8,652 -16,157 188,272 -111,471 6,958 -13,736 174,536 -125,207	37, 530		192, 529	7, 263	6,534	178, 732	324, 243	24, 500	
5,990 -13,253 297,678 -2,066 6,808 -13,313 284,365 -15,379 8,047 -15,552 268,813 -30,930 10,527 -17,790 251,023 -48,720 9,378 -16,883 234,140 -65,603 8,349 -15,612 218,528 -81,215 6,595 -14,100 204,429 -95,315 8,652 -16,157 188,272 -111,471 6,958 -13,736 174,636 -125,207	0		0	7,505	5, 808	-13, 313	310,930	11,187	
5,808 -13,313 284,365 8,047 -15,552 268,813 10,527 -17,790 251,023 9,378 -16,883 234,140 8,349 -15,612 218,528 6,595 -14,100 204,429 8,652 -16,157 188,272 6,958 -13,736 174,536	0		0	7,263	5, 990	-13, 253	297, 678	-2,066	Storage Ratio: C%
8,047 -15,552 268,813 10,527 -17,790 251,023 9,378 -16,883 234,140 8,349 -15,612 218,528 6,595 -14,100 204,429 8,652 -16,157 188,272 - 6,958 -13,736 174,536 -	O		0	7, 505	8,808	-13, 313	284, 365	-15,379	
10, 527 -17, 790 251, 023 9, 378 -16, 883 234, 140 8, 349 -15, 612 218, 528 6, 595 -14, 100 204, 429 8, 652 -16, 157 188, 272 6, 958 -13, 736 174, 536	0		0	7,505	8,047	-15, 552	268, 813	-30, 930	
9, 378 -16, 883 234, 140 8, 349 -15, 612 218, 528 6, 595 -14, 100 204, 429 8, 652 -16, 157 188, 272 6, 958 -13, 736 174, 536	0		. 0	7,263	10,527	-17, 790	251,023	-48, 720	
8,349 -15,612 218,528 6,595 -14,100 204,429 8,652 -16,157 188,272 6,958 -13,736 174,536	0		0	7, 505	9, 378	-16,883	234, 140	-65, 603	
6,595 -14,100 204,429 8,652 -16,157 188,272 - 6,958 -13,736 174,536 -	0			7, 263	8, 349	-15,612	218, 528	-81, 215	
8, 652 -16, 157 188, 272 6, 958 -13, 736 174, 536	0		0	7,505	6, 595	-14, 100	204, 429	-95, 315	
6,958 -13,736 174,536	0		0	7,505	8, 652	-16, 157	188, 272	-111, 471	
	0		•	6,779	6,958	-13,736	174, 536	-125, 207	

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Table B-6(4) WATER BALANCE (AT TARGET YEAR - 1)

Village Name : Lepurko

ğ	Catchment Area (km2)	(Jon 2)	9	٠	DAMO	UMCU (m3/d) 4	429. 4			
Stora	Storage Capacity (m3)	(m3)	142, 900	,	Reservoir Area (m2)		96, 800			
							# *			
Month	Day	Unit Dis- charge	Inflow to Dem	DA H	Evaporation	Monthly Storage	Cumulative Storage	Actual Storage	Remarks	
		(m3/km2/m)	(田3/田)	(m3/m)	(m3/m)	(加3/加)	(m3)	(年3)		
			(1)	(2)	(3)	(4) = (1-2-3)	(2)	(9)		
23	83	0	•	12,023	11, 132	0,	0	O (
က	31	31, 184	187,104	13, 311	11, 132	162, 661	162, 661	142,900		
4	88	37, 530	225, 180	12,882	10,454	201,844	364, 504	142,900	142, 900 Max. Capacity	
ശ	31	` o	0	13, 311	9, 293	-22, 604	341,900	120, 296		
ဖ	8	0	0	12,882	9, 583	-22, 465	319, 435	97,831		
	31	0	! •	13, 311	9, 293	-22, 604	296, 831	75, 226		
	31	0	0	13, 311	12,874	-26, 186	270, 645	49,041		
თ	30	0	0	12,882	16,843	-29, 725	240,920	19, 315		
01	31	0	: : : O	13, 311	15,004	-28,315	212,604	-9,000	Storage Ratio: 0%	
11	တ္တ	0	0	12,882	13, 358	-26, 240	186, 364	-35, 240		
12	31	0	0	13, 311	10, 551	-23,863	162, 501	-59, 103		
-	31	0	0	13, 311	13,842	-27, 154	135, 347	-86, 257		
. 03	28	0	0.0	12,023	11, 132	-23, 155	112, 192	-109, 412		
			2 4 2 5 7 7 7							

Table B-6(5) WATER BALANCE (AT TARGET YEAR-1)
Village Name : Nengungu

Day Unit Dis- darge Inflow to Dag WCU Evacoration Scorace Monthly Scorace Monthly Scorace Actual Scorace Actual Scorace 23 (a3/m2/a) (a3/m) (a3/	ğ	Catchment Area (km2)	. (km2)	1.54		NOM/I	UMCU (#3/4)	114.1		
Day Unit Dis-charge (1) (2) (3) (4)=(1-2-3) (5) (5) (6) 28 (0 0 3,195 9,015 0.5) (5) (4)=(1-2-3) (5) (6) 31 31,184 48,022 3,537 9,015 35,471 35,471 35,471 30 37,530 57,796 3,423 7,761 -11,184 59,132 59,132 31 0 0 3,537 7,525 -11,063 74,007 48,070 31 0 0 3,537 10,426 -13,963 34,107 34,107 30 0 0 3,537 10,426 -13,963 34,107 34,107 30 0 0 3,537 10,426 -13,963 17,044 17,044 31 0 0 3,537 12,150 -16,688 1,384 -12,884 31 0 0 3,537 12,150 -12,083 -24,966 -24,966 30 0 0 3,537 12,150 -12,083 -24,966 -24,966 30 0 0 3,537 12,150 -14,747 -99,713 -90,713 31 0 0 3,537 12,120 -14,747 -99,713 -30,713 32 0 0 3,537 12,120 -14,241 -12,884 -12,884 31 0 0 3,537 12,120 -14,747 -99,713 -90,713 32 0 0 3,537 12,120 -14,747 -99,713 -92,923	Stora	uge Capacity	(三)	114,900		Reservoir Area		78, 390		
Day Unit Dis- charge Inflow to Dam WCU Evacoration Wonthly Shorage Camulative Shorage Actual Shorage Actual Annual Actual A						:				
(m3/m2/m2/m2/m2/m2/m2) (m3/m2) (m3/m2)<	Month	Day	Unit Dis- charge		no _e	Evaporation	Monthly Storage	Ounulative Storage	Actual Storage	Remarks
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	٠		(和3/大四2/里)	(田3/田)	(m3/m)	(用3/用)	(m3/m)	(m3)	(EE)	
28 0 3,195 9,015 0 0 0 31 31,184 48,023 3,537 9,015 35,471 35,413 35,413 35,132 35,114 35,114 35,114				(1)	(3)	(3)	(4) = (1-2-3)	(5)	(9)	
31 31,184 48,023 3,537 9,015 35,471 35,471 35,471 35,471 35,471 35,471 35,471 35,471 35,471 35,471 35,471 35,471 35,471 35,471 35,471 35,471 35,471 35,471 35,372 7,525 -11,063 48,070		58	0	. 0	3, 195	9,015	0	0		
30 37,530 57,796 3,423 8,466 45,907 81,378 81,378 31 0 0 3,537 7,525 -11,063 70,316 70,316 30 0 0 3,537 7,525 -11,063 48,070 48,070 31 0 0 3,537 10,426 -13,963 34,107 34,107 30 0 0 3,537 10,426 -13,963 17,044 17,044 31 0 0 3,537 12,150 -15,688 1,356 1,356 30 0 0 3,537 12,150 -14,241 -12,884 -12,884 31 0 0 3,537 8,545 -12,082 -24,966 -24,966 31 0 0 3,537 11,210 -14,747 -39,713 -39,713 38 0 0 3,537 12,210 -15,923 -24,966 -24,966 38 0 0 </td <td>es</td> <td>31</td> <td>31,184</td> <td>48, 023</td> <td>3, 537</td> <td>9,015</td> <td>35, 471</td> <td>35, 471</td> <td>35, 471</td> <td></td>	es	31	31,184	48, 023	3, 537	9,015	35, 471	35, 471	35, 471	
31 0 3,537 7,525 -11,063 70,316 70,316 30 0 3,423 7,761 -11,184 59,132 59,132 31 0 3,537 7,525 -11,063 48,070 48,070 31 0 0 3,537 10,426 -13,963 34,107 48,070 30 0 0 3,423 13,640 -17,063 17,044 17,044 31 0 0 3,423 12,150 -15,688 1,356 1,356 30 0 0 3,423 10,818 -14,241 -12,884 -12,884 30 0 0 3,423 10,818 -14,241 -12,884 -12,884 31 0 0 3,537 8,545 -12,082 -24,966 -24,966 31 0 0 3,537 11,210 -14,747 -39,713 -39,713 28 0 0 3,195 9,015 -12,	4	စ္တ	37,530	57,796	3, 423	8,466	45, 907	81, 378	81, 378	
30 0 3,423 7,761 -11,184 59,132 59,132 31 0 3,537 7,525 -11,063 48,070 48,070 31 0 3,537 10,426 -13,963 34,107 34,107 30 0 3,423 13,640 -17,063 17,044 17,044 31 0 0 3,537 12,150 -15,688 1,356 1,356 30 0 0 3,423 10,818 -14,241 -12,884 -12,884 31 0 0 3,423 10,818 -14,241 -12,884 -12,884 31 0 0 3,423 10,818 -14,241 -12,884 -12,884 31 0 0 3,537 8,545 -12,082 -24,966 -24,966 31 0 0 3,537 11,210 -14,747 -39,713 -39,713 28 0 0 3,195 9,015 -12,210	ເດ	31	o	.0	3, 537	7,525	-11,063	70,316	70,316	
31 0 3,537 7,525 -11,063 48,070 48,070 31 0 0 3,537 10,426 -13,963 34,107 34,107 30 0 0 3,423 13,640 -17,063 17,044 17,044 31 0 0 3,537 12,150 -15,688 1,356 1,356 30 0 0 3,423 10,818 -14,241 -12,884 -12,884 31 0 0 3,537 8,545 -12,082 -24,966 -24,966 31 0 0 3,537 11,210 -14,747 -39,713 -39,713 28 0 0 3,195 9,015 -12,210 -51,923 -51,923	10	30	0		3, 423	7,761	-11,184	59, 132	59, 132	
31 0 3,537 10,426 -13,963 34,107 34,107 30 0 3,423 13,640 -17,063 17,044 17,044 31 0 0 3,537 12,150 -15,688 1,356 1,356 30 0 0 3,423 10,818 -14,241 -12,884 -12,884 31 0 0 3,537 8,545 -12,082 -24,966 -24,966 31 0 0 3,537 11,210 -14,747 -39,713 -39,713 28 0 0 3,195 9,015 -12,210 -51,923 -51,923	,	31	0	0	3, 537	7,525	-11,063	48,070	48,070	
30 0 0 3,423 13,640 -17,063 17,044 17,044 31 0 0 3,537 12,150 -15,688 1,356 1,356 30 0 0 3,423 10,818 -14,241 -12,884 -12,884 31 0 0 3,537 8,545 -12,082 -24,966 -24,966 31 0 0 3,537 11,210 -14,747 -39,713 -39,713 28 0 0 3,195 9,015 -12,210 -51,923 -51,923	00	31	0	0	3, 537	10,426	-13, 963	34, 107	34, 107	
31 0 3,537 12,150 -15,688 1,356 1,356 30 0 3,423 10,818 -14,241 -12,884 -12,884 31 0 0 3,537 8,545 -12,082 -24,966 -24,966 31 0 0 3,537 11,210 -14,747 -39,713 -39,713 28 0 0 3,195 9,015 -12,210 -51,923 -51,923	•	30	0	0	3, 423	13,640	-17,063	17,044	17,044	
0 0 3,423 10,818 -14,241 -12,884 -12,884 0 0 3,537 8,545 -12,082 -24,966 -24,966 0 0 3,537 11,210 -14,747 -39,713 -39,713 0 0 3,195 9,015 -12,210 -51,923 -51,923	92	E	0	0	3, 537	12, 150	-15, 688	1,356	1,356	
0 0 3,537 8,545 -12,082 -24,966 0 0 3,537 11,210 -14,747 -39,713 0 0 3,195 9,015 -12,210 -51,923	e-1	900 000	o	• · · ·	3, 423	10,818	-14,241	-12,884	-12,884	Storage Ratio: UK
0 0 3,537 11,210 -14,747 -39,713 0 0 3,195 9,015 -12,210 -51,923	2	31	0	0	3, 537	8, 545	-12,082	-24,966	-24,956	
0 0 3,195 9,015 -12,210 -51,923		45	0	0	3, 537	11,210	-14,747	-39, 713	-39, 713	
	^1	28	Ó	0	3, 195	9,015	-12,210	-51,923	-51,923	

Table B- 6(6) WATER BALANCE (AT TARGET YEAR - 1)

Village Name : Moita Kiloriti

_	Catchment Area (km2)	(km2)	17.94		UNCO	URCU (m3/d) 2	254.3		
S,	Storage Capacity (m3)	(EE)	142, 300		Reservoir Area (m2)		197, 240		
							\$		
Month	Day	Unit Dis- charge	Inflow to Dam	മൂ	Evaporation	Monthly Storage	Cumulative Storage	Actual Storage	Remarks
		(m3/km2/m)	(田3/田)	(田3/田)	(m3/m)	(m3/m)	(m3)	(m3)	
			(1)	(2)	(3)	(4) = (1-2-3)	(<u>s</u>)	(9)	
C3	23	0	0	7,120	22, 683		0	0	
co.	31	31, 184	559, 441	7,883	22, 683	528,875	528, 875	142, 300	
4	30	37, 530	673, 288	7,629	21, 302	644, 357	1, 173, 232	142, 300	Max. Capacity
ഗ	31.	0	•	7,883	18,935	-26,818	1, 146, 414	115, 482	
9	08	0	0	7,629	19, 527	-27, 156	1,119,258	88, 326	
7	31	0	0	7,883	18,935	-26,818	1,092,440	61, 508	
· •	31	0	0	7,883	26, 233	-34,116	1,058,324	27, 391	
თ	30	o		7,629	34, 320	-41,949	1,016,375	-14, 557.	Storage Ratio: OK
01	31	0		7,883	30,572	-38, 456	977, 919	-53,013	
I	900	0	0	7,629	27, 219	-34,848	943,071	-87, 861	
12	6	0	.0	7,883	21, 499	-29, 382	913, 689	-117, 244	
, - 4	31	0	0	7,883	28, 205	-36, 089	877,600	-153, 332	
63	28	0	0	7, 120	22, 683	-29, 803	847, 797	-183, 135	

Table B-6(7) WATER BALANCE (AT TARGET YEAR-1)
Village Name : Moita Bwawani

	Catchment Area (km2)	a (km2)	22. 42	DOM	UMCU (m3/d)	539.8		
ŃΙ	Storage Capacity (m3)	٧ (#3)	14, 100	Reservoir Area (m2)	(五2)	45, 380		
:								
Month	Day	Unit Dis- charge	Inflow to Dam WCU	Evaporation	Monthly Storage	Cumulative Storage	Actual Storage	Remarks
		(m3/km2/m)	(m3/m) (m3/m)	m) (m3/m)	(由3/四)	(自3)	(EE)	
			$(1) \qquad (2)$	(3)	(4) = (1-2-3)	(2)	(9)	
23	28	0	0 15, 114	14 5,219	•		0	
e.>	31	31, 184	699, 145 16, 734	34 5,219	677, 193	677, 193	14, 100	
4	30	37, 530	841, 423 16, 194	94 4,901	820, 328	1, 497, 520	14, 100	Max. Capacity
ധ	31	0	016, 734	34 4,356	-21,090	1,476,430	-6, 990	Storage Ratio: O%
φ	30	0	0 16,194	94 4, 493	-20, 687	1,455,743	-27, 677	
	31	0	0 16,734	34 4, 356	-21, 090	1, 434, 653	-48, 767	
∞	31	0	0 16, 734	34 6,036	-22, 769	1,411,884	-71, 537	
თ	30	0	0 16,194	94 7,896	-24,090	1,387,794	-95, 627	
10	31	0	0 16,734	34 7,034	-23, 768	1,364,026	-119, 394	
11	90	, 0	0 16, 194	94 6, 262	-22, 456	1,341,570	-141,851	
12	33	0	0 16,734	34 4,946		1, 319, 889	-163, 531	
 4	31	0	0 16,734	34 6,489	-23, 223	1, 296, 666	-186, 754	
63	28	0	0	14 5, 219	-20, 333	1, 276, 333	-207, 087	

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Table B-6(8) WATER BALANCE (AT TARGET YEAR - 1)

Village Name : Mbuyuni

		Remarks					58,000 Max. Capacity				Storage Ratio: OX						
		Actual Storage	(m3)	(9)	0	58,000	58,000	41, 765	25, 610	9,375	-9, 547	-31, 147	-51, 665	-70,651	-87,831	-107, 478	-124, 196
298.9	72, 600	Oumulative Storage	(m3)	(2)	0	639, 120	1,412,694	1, 396, 459	1,380,304	1,364,069	1,345,147	1, 323, 548	1,303,029	1,284,043	1, 266, 864	1,247,216	1, 230, 498
UWCU (m3/d) 2		Monthly Storage	(n3/n)	(4)=(1-2-3)	0	639, 120	773, 574	-16,236	-16,154	-16, 236	-18,922	-21, 599	-20,519	-18,986	-17, 179	-19,648	-16,718
UNICE	Reservoir Area (m2)	Evaporation	(田3/田)	(3)	8,349	8,349	7,841	6,970	7, 187	6,970	9,656	12, 632	11,253	10,019	7,913	10,382	8, 349
	03	<u> </u>	(田3/日)	(2)-	8, 369	9,266	8,967	9,266	8, 967	9, 266	9,266	8, 967	9,266	8,967	9,266	9,266	8, 369
21.06	58, 000	Inflow to Dam	(知3/期)	(1)	0	656, 735	790, 382	0	0	0	0	0	0	0	0	0	0
_	_	Unit Dis- charge	(п3/кп2/п)		O	31, 184	37,530	0	0	0	0	0	0	0	0	0	0
Catchment Area (km2)	Storage Capacity (m3)	Day			83	31	30	31	98	31	31	30	31	30	31	31	28
ඊ	Stol	Month			6 3	ო	4,	ഹ	9	1	8	თ	10	11	12	Ħ	81

Table B-6(9) WATER BALANCE (AT TARGET YEAR - 1)

Village Name : Makuyumi

Month Day Day Unit Dis- oration inflow to Das RCD Evanoration of Excrete Month (m3/m) (m3/m) Consider of Excrete Month (m3/m) (m3/m) Month	S.	Catchment Area (km2)	(km2)	4.3			nation	URCU (m3/d)	155.3		
Unit Dis- Charge Charles Charge Cha	ario.	re Capacity	(m3)	30, 600			Reservoir Area	(m2)	33, 880		
(#3/fm2/m) (#3/m) (#3/m) (#3/m) (#3/m) (#3) (#3) (#3) (#3) (#3) (#3) (#3) (#3		Day	Unit Dis-		to Dam	DQ.	Evaporation	Monthly	Cumulative	Actual	Remarks
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			(m3/km2/m)		(FI	(m3/m)	(田3/田)	(m3/m)	(£8)	(m3)	
0 0 4,348 3,896 0 0 0 31,184 134,091 4,814 3,896 125,381 125,381 30,600 37,530 161,379 4,659 3,659 153,061 278,442 30,600 0 0 4,814 3,252 -8,067 270,375 22,533 0 0 4,814 3,252 -8,067 254,295 6,453 0 0 4,814 4,506 -9,320 244,975 -2,867 0 0 4,659 5,895 -10,554 234,421 -13,421 0 0 4,659 5,895 -10,554 234,421 -13,421 0 0 4,814 5,251 -10,566 224,355 -23,487 0 0 4,814 5,251 -9,334 215,020 -32,821 0 0 4,814 4,845 -9,559 -9,659 196,854 -60,988 0 0 4,814 4,845 -9,659 196,859 -60,988 -60,988 0				Ü	. ~	(2)	(3)	(4) = (1-2-3)	(2)	(9)	
31,184 134,091 4,814 3,896 125,381 125,381 30,600 37,530 161,379 4,659 3,659 153,061 278,442 30,600 0 0 4,814 3,252 -8,067 270,375 22,533 0 0 4,814 3,252 -8,067 254,295 14,520 0 0 4,814 4,506 -9,320 244,975 -2,867 0 0 4,814 5,251 -10,554 234,421 -13,421 0 0 4,814 5,251 -10,666 224,355 -23,487 0 0 4,814 5,251 -10,666 224,355 -23,487 0 0 4,814 5,251 -10,666 224,355 -23,487 0 0 4,814 5,251 -10,666 224,355 -23,487 0 0 4,814 3,693 -8,507 206,513 -41,329 0 0 4,814 4,845 -9,659 196,59 -50,988 0 0 4,		28	0	6		4,348	3,896	0	0	0	
37,530 161,379 4,659 3,659 153,061 278,442 30,600 0 0 4,814 3,252 -8,067 270,375 22,533 0 0 4,659 3,354 -8,013 262,362 14,520 0 0 4,814 3,252 -8,067 254,295 6,453 0 0 4,814 4,506 -9,320 244,975 -2,867 0 0 4,659 5,895 -10,554 234,421 -13,421 0 0 4,814 5,251 -10,066 224,355 -23,487 0 0 4,814 5,251 -10,066 224,355 -23,487 0 0 4,814 3,693 -8,507 206,513 -41,329 0 0 4,814 3,896 -9,659 196,854 -50,988 0 0 4,348 3,896 -8,245 188,609 -59,232		18	31, 184	134,	160	4,814	3,896	125, 381	125, 381	30, 600	
0 4,814 3,252 -8,067 270,375 22,533 0 0 4,659 3,354 -8,013 262,362 14,520 0 0 4,814 3,252 -8,067 254,295 6,453 0 0 4,814 4,506 -9,320 244,975 -2,867 0 0 4,659 5,895 -10,554 234,421 -13,421 0 0 4,814 5,251 -10,066 224,355 -23,487 0 0 4,659 4,675 -9,334 215,020 -32,821 0 0 4,814 3,693 -8,507 206,513 -41,329 0 0 4,814 4,845 -9,659 196,854 -50,988 0 0 4,348 3,896 -8,245 188,609 -59,232		30	37, 530	161,	379	4,659	3,659	153,061	278, 442	30, 600	
0 0 4,659 3,354 -8,013 262,362 14,520 0 0 4,814 3,252 -8,067 254,295 6,453 0 0 4,814 4,506 -9,320 244,975 -2,867 0 0 4,659 5,895 -10,554 234,421 -13,421 0 0 4,814 5,251 -10,066 224,355 -23,487 0 0 4,659 4,675 -9,334 215,020 -32,821 0 0 4,814 3,693 -8,507 206,513 -41,329 0 0 4,814 4,845 -9,659 196,854 -50,988 0 0 4,348 3,896 -8,245 188,609 -59,232		: ** **	0	0	-	4,814	3,252	-8, 067	270,375	22, 533	
0 4,814 3,252 -8,067 254,295 6,453 0 0 4,814 4,506 -9,320 244,975 -2,867 0 0 4,659 5,895 -10,554 234,421 -13,421 0 0 4,814 5,251 -10,066 224,355 -23,487 0 0 4,659 4,675 -9,334 215,020 -32,821 0 0 4,814 3,693 -8,507 206,513 -41,329 0 0 4,814 4,845 -9,659 196,854 -50,983 0 0 4,348 3,896 -8,245 188,609 -59,232		30	0	0		4,659	3,354	-8,013	262, 362	14, 520	
0 0 4,814 4,506 -9,320 244,975 -2,867 0 0 4,659 5,895 -10,554 234,421 -13,421 0 0 4,814 5,251 -10,066 224,355 -23,487 0 0 4,659 4,675 -9,334 215,020 -32,821 0 0 4,814 3,693 -8,507 206,513 -41,329 0 0 4,814 4,845 -9,659 196,854 -50,983 0 0 4,348 3,896 -8,245 188,609 -59,232		31	0	0		4,814	3, 252	-8,067	254, 295	6, 453	
0 0 4,659 5,895 -10,554 234,421 -13,421 0 0 4,814 5,251 -10,066 224,355 -23,487 0 0 4,659 4,675 -9,334 215,020 -32,821 0 0 4,814 3,693 -8,507 206,513 -41,329 0 0 4,814 4,845 -9,659 196,854 -50,988 0 0 4,348 3,896 -8,245 188,609 -59,232		31	0	0		4,814	4, 506	-9,320	244,975	-2,867	Storage Ratio: 0%
0 0 4,814 5,251 -10,066 224,355 0 0 4,659 4,675 -9,334 215,020 0 0 4,814 3,693 -8,507 206,513 0 0 4,348 3,896 -8,245 188,609		30	0	0		4,659	5,895	-10,554	234, 421	-13, 421	
0 0 4,659 4,675 -9,334 215,020 0 0 4,814 3,693 -8,507 206,513 0 0 4,814 4,845 -9,659 196,854 0 0 4,348 3,896 -8,245 188,609		33	0	0	:	4,814	5,251	-10,066	224, 355	-23, 487	
0 0 4,814 3,693 -8,507 206,513 0 0 4,814 4,845 -9,659 196,854 0 0 4,348 3,896 -8,245 188,609		30	0	0		4,659	4,675	-9, 334	215,020	-32, 821	
0 0 4,814 4,845 -9,659 196,854 0 0 4,348 3,896 -8,245 188,609		हुँ	0	0	: •	4,814	3,693	-8, 507	206, 513	-41, 329	
0 0 4,348 3,896 -8,245 188,609		31	0	0		4,814	4,845	-9, 659	196,854	-50,988	
		82	0	0		4,348	3,896	-8, 245	188, 609	-59, 232	

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Table B- 6(10) WATER BALANCE (AT TARGET YEAR - 1)

Village Name : Emaîrete

હ	Catchment Area (km2)		11.81		TALCO	UMOCO (PIS/A)	377.2		
Stora	Storage Capacity (H3)	(EE3)	224, 900		Reservoir Area (m2)		113, 270		
		. :	:						
Month	Day	Unit Dis-	Inflow to Dam	mcn HCn	Evaporation	Monthly Storage	Oumulative Storage	Actual Storage	Remarks
		(n3/kn2/n)	(田3/田)	(田3/田)	(田3/田)	(日3/日)	(m3)	(EB3)	
			(1)	(2)	(3)	(4) = (1-2-3)	(5)	(9)	
73	28	0	0	10,562	13,026	0	0	0	
က	33	31,184	368, 283	11,693	13,026	343, 564	343, 564	224, 900	
4	30	37, 530	443, 229	11,316	12, 233	419,680	763, 244	224,900	Max. Capacity
ß	33	0	0	11,693	10,874	-22, 567	740,677	202, 333	
9	30	0	0	11,316	11,214	-22, 530	718, 147	179,803	
2	33	ø	0	11,693	10,874	-22, 567	695, 580	157, 236	
တ	33	0		11,693	15,065	-26, 758	668, 822	130, 478	
σ	30	0	0	11,316	19, 709	-31,025	637, 797	99, 453	
10	31	0	0	11,693	17,557	-29, 250	608, 547	70, 203	
11	30	0	0	11,316	15, 631	-26,947	581,600	43, 256	
27	31	0	0	11,693	12,346	-24,040	557, 560	19,216	
[•] न	31	0	0	11, 693	16, 198	-27, 891	529, 669	-8,675	Storage Ratio: OX
63	82	0	0	10,562	13,026	-23, 588	506,081	-32, 262	

Table B-7(1) WATER BALANCE (AT TARGET YEAR - 2)

Village Name : Lendikinya

			Remarks			0	000	186,000 Max. Capacity	27	75	0.1	03	32	32	18.	28	92	886 Storage Ratio: O%
			Actual Storage	(83)	(9)		186,000	186,0	169, 327	152, 775	136, 101	116,903	95, 232	74, 532	55,318	37, 758	17,876	- 05
326.5	68, 250		Cumulative Storage	(m3)	(2)	0	461,016	1,020,311	1,003,637	987, 086	970, 412	951, 213	929, 543	908, 843	889, 629	872, 068	852, 187	835, 196
UWCU (m3/d)		. •	Monthly Storage	(m3/m)	(4) = (1-2-3)	•	461,016	559, 295	-16,674	-16, 552	-16,674	-19, 199	-21, 671	-20, 700	-19,214	-17, 561	-19,881	-16, 991
UMCI	Recervoir Area (m2)		Evaporation	(田3/田)	(3)	7,849	7,849	7,371	6, 552	6, 757	6, 552	9,077	11,876	10,579	9,419	7,439	9,760	7,849
	æ		non.	(田3/田)	(3)	9,143	10, 122	9, 795	- 10, 122	9, 795	10, 122	10, 122	9, 795	10, 122	9, 795	10, 122	10, 122	9, 142
15.36	186, 000		Inflow to Dam	(田3/田)	(1)	0	478, 986	576, 461	•	0	•	0	•	0	::0	0	0	0
(Km2)	(H3)		Unit Dis- charge	(m3/km2/m)		0	31, 184	37, 530	0	0	0	0	0	0	0	o ²	0	0
Catchment Area (Km2)	Storage Capacity (m3)	, '	Day			82	31	30	31	30	31	31	30	31	30	31	31	28
** **	Stora		Month			c)	es	4	ស	မှ	2	∞	о	10	ដ្ឋ	12		83

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Table B-7(2) WATER BALANCE (AT TARGET YEAR - 2)

Village Name : Enguik

			Remarks															Storage Ratio: 0%
			Actual Storage	(EE)	(9)	0	47,000	47,000	43,060	39, 093	35, 153	30, 273	24, 400	18,961	14,002	9, 732	4, 598	321
48,4	25, 410		Cumulative Storage	(m3)	(2)	0	195, 467.	283, 371	43,060	39, 093	35, 153	30, 273	24, 400	18,961	14,002	9, 732	4,598	321
UMCU (m3/d) 4			Monthly Storage	(m3/m)	(4) = (1-2-3)	•	195, 467	236, 371	-3,940	-3, 968	-3,940	-4,880	-5,873	-5, 439	-4,959	-4,270	-5, 134	-4,277
) nomin	Reservoir Area (m2)	:	Evaporation	(田3/田)	(3)	2,922	2,922	2,744	2,439	2,516	2, 439	3,380	4, 421	3, 939	3, 507	2,770	3, 634	2,922
· · · · ·			ਨੂ	(四3/四)	(3)	1, 355	1,500	1,452	1,500	1,452	1,500	1,500	1,452	1,500	1,452	1,500	1,500	1,355
6.41	47,000	:	Inflow to Dam	(m3/m)	(1)	0	199, 889	240, 567		: Q	0	0	0	0	0	0	0	0
			Unit Dis- charge	(m3/km2/m)		0	31, 184	37, 530	Ο.	0	0	0	0	0	O	0	0	0
Catchment Area (Km2)	Storage Capacity (m3)		Day			88	31	30	31	30	31	31	30	31	30.	31	31	88
~	Şţ	٠	Month			8	ო	ঝ	ശ	9	7	ø	თ	10	11	12	-	83

Table B-7(3) WATER BALANCE (AT TARGET YEAR - 2)
Village Name : Lossimingori

	Catchment Area (Km2)	1 (km2)	35.7		UNCU (m3/4)	(#3/G)	242, 1		
V4	Storage Capacity (m3)	/ (m3)	181,000	:	Reservoir Area (m2)	(m2)	84, 700	·	
			: : : : : : : : : : : : : : : : : : : :		** . *				·
Month	Day	Unit Dis- charge	Inflow to Dan e	no _s	Evaporation	Monthly Storage	Cumulative Storage	Actus]. Storage	Remarks
		(m3/km2/m)	(E3/E)	(日3/日)	(田3/田)	(m3/m)	(m3)	(H3)	
	:		(1)	(3)	(3)	(4) = (1-2-3)	(5)	(9)	
64	38	0	0	6,779	9,741		O	0	
ĸ	31	31,184	1, 113, 269-	7,505	9, 741	1, 096, 023	1,096,023	181,000	
4	30	37, 530	1, 339, 821	7, 263	9,148	1, 323, 410	2,419,434	181,000 M	Max. Capacity
फ	31	0	0	7,505	8, 131	-15, 636	2, 403, 797	165, 364	
9	8	0	•	7, 263	8,385	-15,648	2, 388, 149	149,715	
7	31	0	· · · · · · · · · · · · · · · · · · ·	7,505	8, 131	-15,636	2, 372, 513	134,079	
ω	ដ	0	0	7,505	11, 265	-18,770	2, 353, 743	115,309	
o,	30	0	0	7,263	14, 738	-22,001	2, 331, 742	93, 308	
01	31	0		7, 505	13, 129	-20, 634	2,311,108	72,675	
ਜ	30	0	O	7,263	11,689	-18,952	2, 292, 157	53, 723	
12	31	0	0	7,505	9, 232	-16,737	2, 275, 419	36, 986	
p4	31.	0	 O	7,505	12, 112	-19,617	2, 255, 802	17, 368	
63	28	O) 	6, 779	9, 741	-16, 519	2, 239, 283	849 St	849 Storage Ratio: 0%

Table B-7(4) WATER BALANCE (AT TARGET YEAR - 2)

Village Name : Lepurko

	Catchment Area (km2)		10		CHOCK	UNICE (m3/d)	429. 4		
	Storage Capacity (m3)		283, 000	iro.	Reservoir Area (m2)		121, 000		
Month	ı Day	Unit Dis- charge	Inflow to Dam	₽	Evaporation	Monthly Storage	Cumulative Storage	Actual Storage	Remarks
		(m3/km2/m)	(田3/田)	(田3/田)	(m3/m)	(田3/田)	(m3)	(m3)	
	٠,	5. 	(1)	(2)	(3)	(4)=(1-2-3)	(5)	(9)	
23	28	Ø	0	12,023	13,915	0	0	0	
က	31	31, 184	311,840	13,311	13, 915	284, 614	284, 614	283, 000	
4	30	37, 530	375, 300	12,882	13,068	349, 350	633, 964	283, 000	Max. Capacity
ល	31	0	•	13, 311	11.616	-24,927	609, 036	258,073	
Ø	30	0	. 0	12,882	11, 979	-24,861	584, 175	233, 212	
7	31	0	0	13, 311	11,616	-24, 927	559, 248	208, 284	
έ	31	0	, , , ,	13, 311	16,093	-29, 404	529, 843	178,880	
ത	30	0	: 0	12,882	21,054	-33, 936	495, 907	144,944	
10	31	0	•	13, 311	18, 755	-32, 066	463,841	112,877	
11	ဝင္ပ	0	0	12,882	16,698	-29, 580	434, 261	83, 297	
, 53 53	31	0	0	13, 311	13, 189	-26, 500	407,761	56, 797	
, -1	31	0	0	13, 311	17,303	-30,614	377, 146	26, 183	
63	28	. 0	0	12,023	13,915	-25,938	351, 208	244	Storage Ratio: 0%

Table B-7(5) WATER BALANCE (AT TARGET YEAR - 2)

Village Name : Meserani Juu

		Remarks					Max. Storage										Storage Ratio: CM
		Actual Storage	(四3)	(9)	ల	101,000	101,000 %ax	92,041	83, 135	74, 175	63, 783	51, 973	40, 729	30, 313	20,851	10,01	884 Stor
169.1	38, 720	Oumulative Storage	(EII)	(2)	0	1, 388, 908	3, 062, 873	3,053,914	3,045,008	3, 036, 049	3, 025, 657	3,013,846	3,002,603	2, 992, 186	2, 982, 724	2,971,945	2, 962, 757
UMCU (m3/d)		Monthly Storage	(m3/m)	(4) = (1-2-3)	0	1,388,908	1, 673, 966	-8, 959	-8, 906	-8, 959	-10, 392	-11,810	-11,244	-10,416	-9, 463	-10, 779	-9, 188
	Reservoir Area (m2)	Evaporation	(3/3/11)	(3)	4,453	4, 453	4, 182	3, 71.7	3, 833	3,717	5, 150	6, 737	6,002	5,343	4, 220	5, 537	4,453
		Ş	(田3/田)	(2)	4, 735	5, 242	5,073	5, 242	5,073	5,242	5,242	5,073	5,242	5,073	5,242	5,242	4, 735
44.85	101,000	Inflow to Dam	(田3/田)	(1)	0	1, 398, 602	1, 683, 221	0	0	, ; ;	•	1. 0 1. 0	0	•		0	
	(日3)	Unit Dis- charge	(国3/K四2/四)		0	31, 184	37, 530	0	0	0	0	0	0	0	0	0	0
Catchment Area (km2)	Storage Capacity (m3)	Day	:		88	31	30	31	30	318	31	30	31	30	31	31	28
ਹ	Sto	Month			2	ო	4,	ഗ	9		00	თ	10	ıı.	27		62

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Table B-7(6) WATER BALANCE (AT TARGET YEAR - 2)

Village Name : Nengungu

		Renarks					165,000 Max. Capacity										Storage Ratio: 0%
	·	Actual Storage	(田3)	(9)	0	103, 163	165,000 %	151, 613	138,033	124, 646	107, 463	86, 188	66, 748	49, 166	34,446	16, 237	1,243
114.1	102, 600	Oumulativo Storage	(EE)	(5)	0	103, 163	231, 273	217,887	204, 306	190, 920	173, 737	152, 461	133, 021	115, 439	100, 719	82, 510	67,516
		Monthly Storage	(m3/m)	(4)=(1-2-3)	0	103, 163	128, 110	-13, 387	-13,580	-13, 387	-17, 183	-21, 275	-19, 440	-17, 582	-14, 721	-18, 209	-14,994
UMCU (m3/d)	Reservoir Area (m2)	Evaporation	(m3/m)	(3)	11, 799	11, 799	11,081	9,850	10,157	9,850	13,646	17,852	15,903	14, 159	11, 183	14, 672	11, 799
	ră	nos	(m3/m)	(2)	3,195	3, 537	3, 423	3, 537	3, 423	3, 537	3,537	3, 423	3, 537	3, 423	3, 537	3, 537	3, 195
3.8	165, 000	Inflow to Dam	(田3/田)	(1)	0	118, 499	142,614	0	0	0	. 0	0	0	0		0	0
		Unit Dis- charge	(m3/km2/n)		0	31, 184	37,530	0	0	0	o	0	, O	•	0	0	0
Catchment Area (km2)	Storage Capacity (m3)	Day			28	31	30	33	30	31	31	8	31	30	31	31	28
ී	Stor	Month			2	က	4	ഗ	မှ	-3	∞	oo ¹	10	11	12	ered.	61

Table B-7(7) WATER BALANCE (AT TARGET YEAR - 2)

Village Name : Moita Kiloriti

દ	Catchment Area (km2)		17.94	:	nown	UNICU (m3/d) 2	254.3		
Stora	Storage Capacity (m3)	* *	423, 000		Reservoir Area (m2)		274,000		
Month	Day	Unit Dis- charge	Inflow to Dam	വാഷ്ട	Evaporation	Monthly Storage	Oumulative Storage	Actual Storage	Remarks
		(n3/km2/n)	(田3/田)	(田3/田)	(田3/田)	(m3/m)	(m3)	(EH3)	
		į	(1)	(2)	(3)	(4) = (1-2-3)	(5)	(9)	
6.1	28	0	0	7, 120	31,510	Φ:	0	0	
က	31	31, 184	559, 441	7,883	31, 510	520,048	520,048	423,000	
4Ji	90	37, 530	673, 288	7,629	29, 592	636, 067	1, 156, 115	423,000	Max. Capacity
S	31	0	Ö	7,883	26, 304	-34, 187	1, 121, 928	388, 813	
9	30	0	0	7,629	27, 126	-34, 755	1,087,173	354, 058	
7	31.	0	0	7,883	26, 304	-34, 187	1,052,985	319, 870	
&	31	0		7,883	36, 442	-44,325	1,008,660	275, 545	
თ	30	0	0	7,629	47,676	-55, 305	953, 355	220,240	
01	65	Ö	:	7,883	42, 470	-50, 353	903, 002	169,887	
	30	0		7,629	37,812	-45, 441	857, 561	124, 446	
12	31	0	•	7,883	29, 866	-37, 749	819, 811	86, 697	
1	31	0	0	7,883	39, 182	-47,065	772, 746	39, 631	
73	28	0	0	7, 120	31,510	-38, 630	734, 116	1,001	Storage Ratio: 0%

Table B-7(8) WATER BALANCE (AT TARGET YEAR - 2)

Village Name : Moita Bwawani

පී	Catchment Area (km2)	(km2)	22. 42		DINCT	UWCU (m3/d) 5	539, 8		
Stol	Storage Capacity (m3)	(ш3)	320,000		Reservoir Area (m2)		122, 000		
Month	Бау	Unit Dis- charge	inflow to Dem		Evaporation	Monthly Storage	Cumulative Storage	Actual Storage	Remarks
		(n3/kn2/n)	(由3/年)	(田3/田)	(田3/田)	(m3/m)	(EII3)	(Em)	
			(1)	(2)	(3)	(4)=(1-2-3)	(2)	(9)	
61	23	0	0	15, 114	14,030	0	0	0	
ო	31	31, 184	699, 145	16, 734	14,030	668, 381	668, 381	320,000	
4	စ္တ	37, 530	841, 423	16, 194	13, 176	812, 053	1,480,434	320,000	Max. Capacity
ശ	31	0	0	16, 734	11,712	-28, 446	1,451,988	291,554	
9	30	0	0	16, 194	12,078	-28, 272	1, 423, 716	263, 282	
7	દ	0	0	16, 734	11, 712	-28, 446	1, 395, 270	234,836	
ϡ	31	0	, : : : : : : :	16, 734	16, 226	-32, 960	1, 362, 311	201,877	
თ	30	0	0	16, 194	21, 228	-37, 422	1, 324, 889	164, 455	
10	31	0		16, 734	18,910	-35,644	1, 289, 245	128,811	
II	30	0	9	16, 194	16,836	-33, 030	1, 256, 215	95, 781	
12	31	0	0	16, 734	13, 298	-30,032	1, 226, 183	65, 749	
بنو	31	0	0	16, 734	17,446	-34, 180	1, 192, 003	31,569	
63	28	0	0	15,114	14,030	-29, 144	1, 162, 859	2,425	2,425 Storage Ratio:

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Table 8-7(9) WATER BALANCE (AT TARGET YEAR - 2)

Stornage Casacity (a3) 618,000 Recervoir Area (a2) Recervoir Area (a2) 450,000 th Day Unit Dis-Casarge (a3/ma/2n) (J	Ostchment Area (km2)	(кл2)	186.69	: -	UNICO	UWCU (m3/d)	166.2		
Day Unit Dis- Inflow to Dam WCU Evaporation Knorthly Storage Storage Charge (13/m) (m3/m) (m3	St.	orsge Capacity	(加3)	618,000		Reservoir Area	(m2)	450, 000		
(ii) (iii) (iiii) (iii) (iii) (iii) (iii) (iiii) (iiii) (iiii) (iiii) (iiii) (iiii) (iiiii) (iiiiiiii	Month	Day	Unit Dis- charge		no _s	Evaporation	Monthly Storage	Cumulative Storage	Actual Storase	Remarks
28 (1) (2) (3) (4)=(1-2-3) (5) 28 0 4,654 51,750 0 0 31 31,184 5,821,741 5,152 51,750 5,764,839 5,764,839 61 30 37,530 7,006,476 4,986 48,600 6,952,890 12,717,728 61 31 0 0 4,986 44,550 -48,352 12,619,340 52 31 0 0 4,986 44,550 -48,352 12,619,340 52 31 0 0 5,152 43,200 -48,352 12,571,488 47 31 0 0 6,986 44,550 -48,352 12,571,488 47 31 0 0 6,152 59,850 -65,002 12,506,486 46 30 0 0 4,986 78,300 -83,286 12,423,200 33 31 0 0 4,986 62,150 -64,902 12,281,212 18 31 0 0 5,152 69,750	•		(B3/kB2/B)	(m3/m)	(期3/用)	(m3/n)	(m3/m)	(加3)	(m3)	
28 0 4,654 51,750 0 0 31 31,184 5,821,741 5,162 51,750 5,764,839 5,764,839 61 30 37,530 7,006,476 4,986 48,600 6,952,890 12,717,728 61 31 0 0 6,152 43,200 -49,536 12,619,840 52 30 0 0 4,986 44,550 -48,352 12,619,840 52 31 0 0 5,152 59,850 -66,002 12,571,488 47 30 0 0 4,986 78,300 -83,286 12,423,200 32 30 0 0 4,986 78,300 -83,286 12,423,200 32 31 0 0 4,986 62,100 -67,996 12,281,212 18 30 0 0 5,152 69,750 -74,902 12,281,212 18 31 0 0 5,152 49,050 -54,202 12,277,009 12 31 0 0				(1)	(2)	(3)	(4)=(1-2-3)	(2)	(9)	
31 31,184 5,821,741 5,152 51,750 5,764,839 5,764,839 6,764,839 6,764,839 6,169,376 6,162 8,764,839 6,764,839 6,764,839 6,177,728 6,1 31 0 0 4,986 44,550 -49,536 12,619,340 5,6 31 0 0 4,986 44,550 -49,536 12,619,340 5,7 31 0 0 4,986 44,550 -49,536 12,511,488 47 30 0 0 0 4,986 78,300 -83,286 12,423,200 32 31 0 0 0 4,986 78,300 -83,286 12,423,200 32 30 0 0 0 4,986 62,100 -61,086 12,281,212 18 31 0 0 0 4,986 62,100 -61,086 12,157,507 5 31 0 0 0 5,152 64,350 -69,502	63	28	0	0	4,654	51,750	0	0	0	
30 37,530 7,006,476 4,986 48,600 6,952,890 12,717,728 61 31 0 0 5,152 43,200 -49,536 12,619,840 52 30 0 0 4,986 44,550 -49,536 12,619,840 52 31 0 0 5,152 43,200 -48,352 12,619,840 52 31 0 0 5,152 59,850 -65,002 12,571,488 47 30 0 0 4,986 78,300 -83,286 12,506,486 40 31 0 0 4,986 78,300 -74,902 12,348,298 24 32 0 0 4,986 62,100 -67,086 12,281,212 18 31 0 0 4,986 62,100 -67,086 12,137,507 5 31 0 0 5,152 49,050 -54,202 12,157,507 5 38 0 0		31	31, 184	5, 821, 741	5, 152	51,750	5, 764, 839	5, 764, 839	618,000	
31 0 6,152 43,200 -48,352 12,669,376 56 30 0 0 4,986 44,550 -49,536 12,619,840 57 31 0 0 5,152 43,200 -48,352 12,571,488 47 31 0 0 6,152 59,850 -65,002 12,506,486 40 30 0 0 4,986 78,300 -83,286 12,423,200 32 31 0 0 5,152 69,750 -74,902 12,348,298 24 30 0 0 4,986 62,100 -67,086 12,281,212 18 31 0 0 4,986 62,100 -54,202 12,281,212 18 31 0 0 5,152 49,050 -54,202 12,157,507 5 31 0 0 4,654 51,750 -66,404 12,101,104		89	37,530	7,006,476	4,986	48,600	6, 952, 890	12, 717, 728		Max. Capacity
30 0 4,986 44,550 -49,536 12,619,840 52 31 0 0 5,152 43,200 -48,352 12,571,488 47 31 0 0 5,152 59,850 -65,002 12,506,486 40 30 0 0 4,986 78,300 -83,286 12,423,200 32 31 0 0 5,152 69,750 -74,902 12,348,298 24 30 0 0 4,986 62,100 -67,086 12,281,212 18 31 0 0 4,986 62,100 -67,086 12,281,212 18 31 0 0 5,152 49,050 -54,202 12,281,212 18 31 0 0 5,152 64,350 -69,502 12,157,507 5 28 0 0 4,654 51,750 -66,502 12,101,104 5,101,104	မှ	31	0	0	5, 152	43,200	-48,352	12, 669, 376	569, 648	
31 0 0 5,152 43,200 -48,352 12,571,488 47 31 0 0 6,152 59,850 -65,002 12,506,486 40 30 0 0 4,986 78,300 -83,286 12,423,200 32 31 0 0 5,152 69,750 -74,902 12,348,298 24 30 0 0 4,986 62,100 -67,086 12,281,212 18 31 0 0 5,152 49,050 -54,202 12,227,009 12 31 0 0 5,152 64,350 -69,502 12,157,507 5 28 0 0 4,654 51,750 -66,404 12,101,104		8	0	0	4,986	44,550	-49, 536	12, 619, 840	520, 112	
31 0 0 5,152 59,850 -65,002 12,506,486 40 30 0 0 4,986 78,300 -83,286 12,423,200 32 31 0 0 5,152 69,750 -74,902 12,348,298 24 30 0 0 4,986 62,100 -67,086 12,281,212 18 31 0 0 5,152 49,050 -54,202 12,227,009 12 31 0 0 5,152 64,350 -69,502 12,157,507 5 28 0 0 4,654 51,750 -56,404 12,101,104		31	0	0	5, 152	43, 200	-48, 352	12, 571, 488	471, 760	
30 0 4,986 78,300 -83,286 12,423,200 32 31 0 0 5,152 69,750 -74,902 12,348,298 24 30 0 0 4,986 62,100 -67,086 12,281,212 18 31 0 0 5,152 49,050 -54,202 12,227,009 12 31 0 0 5,152 64,350 -69,502 12,157,507 5 28 0 0 4,654 51,750 -56,404 12,101,104		31	0	0	5, 152	59, 850	-65,002	12, 506, 486	406, 757	
31 0 6,152 69,750 -74,902 12,348,298 24 30 0 4,986 62,100 -67,086 12,281,212 18 31 0 0 5,152 49,050 -54,202 12,227,009 12 31 0 0 5,152 64,350 -69,502 12,157,507 5 28 0 0 4,654 51,750 -56,404 12,101,104		99	0	0	4,986	78, 300	-83, 286	12, 423, 200	323, 471	
0 0 4,986 62,100 -67,086 12,281,212 18 0 0 5,152 49,050 -54,202 12,227,009 12 0 0 5,152 64,350 -69,502 12,157,507 5 0 0 4,654 51,750 -56,404 12,101,104	_	31	0	•	5, 152	69, 750	-74,902	12, 348, 298	248, 569	
0 0 5,152 49,050 -54,202 12,227,009 12 0 0 5,152 64,350 -69,502 12,157,507 5 0 0 4,654 51,750 -56,404 12,101,104		99	0	0	4,986	62, 100	-67,086	12, 281, 212	181, 483	
0 0 5,152 64,350 -69,502 12,157,507 5 0 0 4,654 51,750 -56,404 12,101,104	•	31	0	0	5, 152	49,050	-54, 202	12, 227, 009	127, 281	
0 0 4,654 51,750 -56,404 12,101,104		3:1	0	0	5, 152	64, 350	-69, 502	12, 157, 507	57, 779	
		82	0	0	4,654	51,750	-56, 404	12, 101, 104	1,375	Storage Ratio: 18%

Table B- 7(10) WATER BALANCE (AT TARGET YEAR - 2)

Village Name : Mbuyuni

		Renarks			\$	Q	354,000 Max. Capacity	96	27.	73	€3	84	78	07	70	60	1 470 Stomeso Botion
		Actual	(EE)	(9)		354,000	354, 00	324, 766	295, 207	265, 973	229, 043	183,884	142,378	104, 707	72, 770	33, 760	7
298.9	208, 000	Cumulative Storage	(m3)	(2)	0	5, 793, 403	8, 367, 278	8, 338, 044	8, 308, 485	8, 279, 251	8, 242, 321	8, 197, 162	8, 155, 656	8, 1.17, 985	8,086,048	8,047,038	014 410 0
UMCU (m3/d) 2		Monthly Storage	(田3/田)	(4)=(1-2-3)		3, 793, 403	4, 573, 875	-29, 234	-29, 559	-29, 234	-36, 930	-45, 159	-41,506	-37, 671	-31, 938	-39,010	6
UPPU	Reservoir Area (m2)	Svaporation	(田3/田)	(3)	23,920	23, 920	22, 464	19,968	20, 592	19,968	27,664	36, 192	32, 240	28, 704	22, 672	29, 744	
	ĮĽ,	Ð	(m3/m)	(2)	8, 369	9, 266	8,967	9,266	8,967	9, 266	9,266	8,967	9, 266	8,967	9,266	9, 266	
122.71	354, 000	Inflow to Dem	(ш3/п)	(1)	0	3, 826, 589	4, 605, 306	0	0	0	0	0		0	Ó	: : •	
		Unit Dis- charge	(n3/kn2/n)	:	0	31, 184	37, 530	0	Ö	0	, O	φ	0	0	0	0	
Catchment Area (km2)	Storage Capacity (m3)	Day			82	က	30	31	30	31	31.	30	318	30	31	31	
ક	Stors	Month			63	ო	4,4	S	့ဖ	2 2	∞	ø,	01	## ##	12	н	

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Table B-7(11) WATER BALANCE (AT TARGET YEAR - 2)

Village Name : Lolkisale

			Remarks			0	e	706,000 Max. Capacity				~				٠,		1,489 Storage Ratio: 0%
			Actual Storage	(EH3)	(9)		332, 979	706, 000	648, 686	590, 477	533, 162	459, 198	367, 239	283, 375	207,616	144, 452	65, 987	1,489
455.3	450,000	:	Oumulative Storage	(m3)	(5)		332, 979	750, 729	693, 414	635, 205	577,891	503,927	411,968	328, 104	252, 345	189, 180	110, 716	46,218
URCU (m3/d) 1 4			Monthly Storege	(m3/m)	(4) = (1-2-3)	0	332, 979	417, 750	-57, 314	-58, 209	-57, 314	-73, 964	-91,959	-83, 864	-75, 759	-63, 164	-78, 464	-64, 498
UNCO	Reservoir Area (m2)		Evaporation	(田3/田)	(3)	51,750	51, 750	48,600	43,200	44,550	43,200	59, 850	78,300	69, 750	62, 100	49,050	64,350	51,750
			no _M	(五3/五)	(2)	12, 748	14,114	13,659	14,114	13, 659	14, 114	14, 114	13, 659	14,114	13, 659	14, 114	14, 114	12, 748
12. 79	706, 000		Inflow to Ban	(m3/m)	(1)	0	398,843	480,009	0	0	0	0	0	0	0	, Ø	0	
:			Unit Dis- charge	(m3/km2/m)	. :	0 ::	31, 184	37, 530	Ö,	0	0		0	0	0	0	0	0
Catchment Area (km2)	Storage Capacity (m3)		Day			28	ត	30	31	99	31	31	30	31	30	33	31	28
ਹੱ	\$to		Month			81	က	4	S	φ	7	တ	Ør.	10	11	22	-4	2

Table B- 7(12) WATER BALANCE (AT TARGET YEAR - 2)

Village Name : Tukusi

ී	Catchment Area (km2)		5.13		Desc.	いずこひ (m3/d)	121.0		
Stor	Storage Capacity (m3)	v (EE)	114,000		Reservoir Ares (m2)		61,000		
Month	Day	Unit Dis- charge	Inflow to Dan	ਲੂ	Evaporation	Monthly Storage	Oumulative Storage	Actual Storage	Remarks
		(±3/km2/m)	(田3/田)	(田3/田)	(田3/田)	(由3/年)	(ш3)	(E国)	
	•		(1)	(3)	(3)	(4) = (1-2-3)	(2)	(9)	
61	28	0	0	3, 388	7,015	0	0	0	
က	31	31,184	159,974	3, 751	7,015	149, 208	149, 208	114,000	
ų	စ္တ	37, 530	192, 529	3, 630	6,588	182, 311	331, 519	114,000	114,000 Max. Capacity
ഗ	31	0	0	3,751	5,856	9, 607	321, 912	104, 393	
Ó	30	0	0	3, 630	6,039	-9, 669	312, 243	94, 724	
~	31	0	0	3, 751	5,856	109,60	302, 636	85, 117	
œ	31	0	0	3, 751	8, 113	-11,864	290, 772	73, 253	
ტ	30	0	0	3, 630	10,614	-14, 244	276, 528	59,009	
10	31	•	: : : • •	3, 751	9,455	-13, 206	263, 322	45, 803	
I	30	0	•	3,630	8,418	-12,048	251, 274	33, 755	
12	31		O	3, 751	6,649	-10,400	240,874	23, 355	
p=4	31	0	: 0	3, 751	8, 723	-12,474	228, 400	10,881	
23	83	0		3, 388	7,015	-10,403	217, 997	478	Storage Ratio: C%

Table B- 7(13) WATER BALANCE (AT TARGET YEAR - 2)

Village Name : Makuyuni

			Remarks					Max. Capacity										670 Storage Ratio: C%
			Actua! Storage	(m3)	(9)	0	159,000	159,000	145, 706	132, 302	119,008	102, 446	82,418	63, 912	47,064	32, 622	15, 176	670
155.3	88, 330		Cumulative Storage	(н3)	(5)	0	586,879	1,297,009	1,283,715	1,270,312	1,257,018	1,240,455	1, 220, 427	1,201,922	1, 185, 073	1, 170, 631	1, 153, 185	1, 138, 679
(#3/q)			Monthly Storage	(m3/m)	(4) = (1-2-3)	0	586, 879	710, 130	-13, 294	-13,404	-13, 294	-16, 562	-20,028	-18, 505	-16,849	-14,442	-17, 445	-14, 506
Desc	Reservoir Area (m2)		Evaporation	(由3/年)	(ig)	10, 158	10, 158	9,540	8, 430	8,745	8, 480	11,748	15, 369	13, 691	12, 190	9,628	12, 631	10, 158
			D S	(田3/田)	(2)	4,348	4,814	4,659	4,814	4,659	4,814	4,814	4,659	4,814	4,659	4,814	4,814	4,348
19.3	159, 000	:	Inflow to Dam	(m3/m)	(1)	0	601,851	724, 329	0	0	0	0	•	0	0		· · · · · · · · · · · · · · · · · · ·	0
	(m3)	=	Unit Dis- charge	(#3/k#2/#)		0	31, 184	37, 530	0	0	0	0	0	0	0	0	0	0
Catchment Area (Km2)	Storage Capacity (m3)		Day			28	31	30	31	80	31	31	30	***	8	31	31	83
ප්	Ston		Month			63	ო	4	ഗ	Ġ		တ	თ	10	11	12	₽ď	83

Table B- 7(14) WATER BALANCE (AT TARGET YEAR - 2)

Village Name : Naitoria

Catchment Area (km2)	⊙	16.08		UNCO	UNCO (#3/q)	153.6		
Storage Capacity (m3) 199	199	199, 000		Reservoir Area (m2)	(H2)	120, 000		
Unit Dis- charge		Inflow to Dam	no _s	Evaporation	Monthly Storage	Cumulative Storage	Actual Storage	Remarks
(n3/kn2/n)		(田3/田)	(田3/田)	(m3/m)	(m3/m)	(田3)	(m3)	
		(1)	(2)	(e)	(4) = (1-2-3)	(5)	(9)	
0		0	4,301	13,800	0	0	0	
31,184	u)	501, 439	4,762	13,800	482, 877	482, 877	199,000	
37, 530 6	Q	603, 482	4, 608	12,960	585, 914	1,068,792	199,000	199,000 Max. Capacity
0		0	4, 762	11,520	-16,282	1,052,510	182, 718	
0		0	4,608	11,880	-16, 488	1,036,022	166, 230	
, O		0	4,762	11,520	-16, 282	1,019,740	149, 949	
0		0	4, 762	15,960	-20, 722	999,019	129, 227	
Ö		0	4,608	20,880	-25, 488	973, 531	103, 739	
0		0	4,762	18,600	-23, 362	950, 169	80,378	
0		0	4,608	16, 560	-21, 168	929, 001	59, 210	
0		0	4,762	13,080	-17,842	911, 160	41,368	
0			4,762	17, 160	-21,922	889, 238	19, 446	
0		0	4, 301	13,800	-18, 101	871, 137	1,346	1,346 Storage Ratio: C%

Table B-7(15) WATER BALANCE (AT TARGET YEAR - 2)

Village Name : Oltukai

Catchment	Catchment Area (km2)	161.23		DAMO	UMCU (m3/d)	151.5		
Storage Capacity (m3)	scity (m3)	141,000	i i	Reservoir Area (m2)		72, 600		
-								
Month Day	Unit Dis- charge	Inflow to Dam.	ਲੂ	Evaporation	Monthly Storage	Cumulative Storage	Actual Storage	Remarks
	(n3/kn2/n)	(m3/m)	(田3/田)	(m3/m)	(用3/用)	(m3)	(EE)	
		(1)	(3)	(3)	(4) = (1-2-3)	(5)	(9)	
2 28		0	4, 242	8, 349		0	0	
3 31	31, 184	5, 027, 796	4,697	8,349	5,014,751	5,014,751	141,000	
4 30		6,050,962	4, 545	7,841	6,038,576	11, 053, 327	141,000	Max. Capacity
33	0	0	4,697	6,970	-11, 666	11,041,661	129, 334	
6 30	0	0	4,545	7, 187	-11, 732	11,029,928	117,602	
7 31	0	0	4, 697	6,970	-11,666	11,018,262	105,935	
8 31	0	0	4,697	9,656	-14, 352	11,003,910	91, 583	
9 30	0	. 0	4,545	12, 632	-17, 177	10, 986, 733	74,406	
10 31	0	0	4,697	11, 253	-15,950	10, 970, 783	58, 456	
11 30	•	0	4,545	10,019	-14, 564	10, 956, 219	43,892	
12 31	0	0	4,697	7,913	-12,610	10,943,609	31,283	
1 31	O	0	4, 697	10,382	-15,078	10, 928, 531	16,204	
2 28	0	0	4, 242	8, 349	-12, 591	10,915,940	3,613	Storage Ratio: 2.5%

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Table B-7(16) WATER BALANCE (AT TARGET YEAR - 2)

Mswakini
Name
Village

		rks					∌										io: %
		Remarks					Max. Capacity										1,074 Storage Ratio: 0%
		Actual Storage	(m3)	(9)	•	163,000	163,000	149,070	135, 102	121, 173	104, 283	84,315	65, 666	48, 578	33, 608	15,918	1,074
UNCU (m3/d) 201.6	80, 000	Cumulative Storage	(EE)	(2)	0	1,855,590	4,092,702	4,078,773	4,064,805	4,050,875	4,033,986	4,014,018	3, 995, 368	3, 978, 280	3,963,310	3, 945, 621	3, 930, 776
		Monthly Storage	(m3/m)	(4)=(1-2-3)	0	1,855,590	2, 237, 112	-13, 930	-13,968	-13,930	-16,890	-19,968	-13,650	-17,088	-14,970	-17,690	-14,845
	Reservoir Area (m2)	Evaporation	(田3/田)	(8)	9, 200	9,200	8,640	7, 680	7,920	7,680	10,640	13,920	12, 400	11,040	8, 720	11, 440	9,200
		Dg.	(田3/田)	(2)	5, 645	6,250	6,048	6, 250	6,048	6,250	6,250	6,048	6,250	6,048	6,250	6,250	5, 545
09	163, 000	Inflow to Dam	(m3/m)	(1)	0	1,871,040	2, 251, 800	0	0			0	0	· · · · · · · · · · · · · · · · · · ·	0	0	0
		Unit Dis- charge	(m3/km2/m)		0	31, 184	37,530	0	0	0	0	0	0	• •	0	0	0
Catchment Area (km2)	Storage Capacity (m3)	Дау			58	31	30	31	30	31.	31	30	31	30	31	č	28
હ	Ston	Month			0	63	4	ហ	9	7	∞	თ	10	Î	12	p=4	61

Table B-7(17) WATER BALANCE (AT TARGET YEAR - 2)

Village Name : Emairete

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