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JAPAN INTERNATIONAL COOPERATION AGENCY NATIONAL WATER SUPPLY AND DRAINAGE BOARD THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

THE FEASIBILITY STUDY

ON

THE KALU GANGA WATER SUPPLY PROJECT

FOR

GREATER COLOMBO

VOLUME III

SUPPORTING REPORT

NOVEMBER 1994

NIPPON JOGESUIDO SEKKEI CO., LTD. NIPPON KOEI CO., LTD.



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THE FEASIBILITY STUDY ON THE KALU GANGA WATER SUPPLY PROJECT FOR GREATER COLOMBO

VOLUME III

SUPPORTING REPORT

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CHAPTER

4

Ref. No.	4.1
Subject :	Water Demand Projection
Title :	Water Demand Projection by Administrative Are
Contents :	Full Development Water Demand Projection

Projected Full Development Water Demand (Revised Projection)

TOTAL OF EXISTING AND NEW SERVICE AREA DEMANDS

	4	a na ana ang katalan ka	YEAR				
		1995	2000	2005	2010	2015	2020
	ted Population	3,178,450	3,423,800	3,644,775	3,865,750	4,088,275	4,310,800
	of Residential, Commercial, Industria						
	Use Area (ha) (Annex.F)	35,605	37,868	39,724	41,580	43,069	44,558
	let Population Density (pop./ha)	89	90	92	93	95	97
	Service Population (A*B/100)	1,585,907	1,768,894	1,797,291	1,825,687	1,846,202	1,866,716
	ge Service Ratio (% to Total Pop.)	50	52	49	47	45	43
D. Direct	Connection						
	Fotal Population	1,670,479	1,947,304	2,135,446	2,329,181	2,527,205	2,730,571
	Water Use (m3/d)	233,830	296,023	339,897	387,408	440,651	498,127
E. Comm	unity Tap						
-	Fotal Population	590,270	524,365	406,240	279,686	144,278	0
	Nater Use (m3/d)	31,284	27,791	21,531	14,823	7,647	0
F. Yard T	Tap						
1	Fotal Population	440,681	587,914	728,054	877,502	1,038,005	1,208,814
۱ <i>۱</i>	Nater Use (m3/d)	33,051	44,094	54,604	65,813	77,850	90,661
H. Total D	omestic Water Use (D+E+F)				• • • • •	·	• • •
	Total Connected Population	2,701,430	3,059,583	3,269,740	3,486,369	3,709,488	3,939,385
	otal Domestic Water Use (m3/d)	298,165	367,908	416,032	468,044	526,148	588,788
	I Water Use						,
	otal Industrial Area (ha)	2,884	3,492	4,020	4,549	4,973	5,398
1	ndustrial Water Use (m3/d)	25,795	30,972	35,482	39,992	43,473	46,955
	ercial Water Use otal Commercial Area (ha)	1,552	1,684	1,794	1,905	1,995	2,086
	Commercial Water Use (m3/d)	99,737	110,743	120,371	130,197	135,838	141,480
	Ional Water Use						
	otal Institutional Area (ha)	2,274	2,446	2,563	2,681	2,784	2,887
	nstitutional Water Use (m3/d)	70,949	77,881	82,546	87,255	90,097	92,939
	let Water Use (m3/d) (H+I+J+K)	494,645	587,504	654,431	725,487	795,556	870,162
M. Water	Loss						
v	Vater Loss (m3/d)	171,900	174,545	199,974	229,021	238,993	252,313
N. Total V	Vater Demand (m3/d) (L+M)	666,546	762,049	854,405	954,509	1,034,549	1,122,475

Projected Full Development Water Demand (Revised Projection)

TOTAL OF EXISTING AREA DEMANDS

		YEAR				
	1995	2000	2005	2010	2015	2020
Projected Population	1,691,800	1,742,800	1,769,600	1,796,400	1,815,550	1,834,70
Total of Residential, Commercial, Industria			1. 1. 1. N. 1.	and the second	1.1.1.1.1.1	
Land Use Area (ha) (Annex.F)	11,363	11,774	12,034	12,293	12,418	12,54
Ave, Net Population Density (pop./ha)	149	148	147	146	146	14
 Total Service Population (A*B/100) 	1,561,665	1,742,800	1,769,600	1,796,400	1,815,550	1,834,70
. Average Service Ratio (% to Total Pop.)	92	100	100	100	<u>i 100</u>	10
D. Direct Connection						4.5
Total Population	986,620	1,157,234	1,235,362	1,315,200	1,390,842	1,467,76
1						
Water Use (m3/d)	147,664	190,944	214,335	239,366	265,651	293,55
. Community Tap	· ·				-	
	• :					
Total Population	495,289	436,580	331,233	223,354	112,712	
Water Use (m3/d)	26,250	23,139	17,555	11,838	5,974	·
. Yard Tap						-
				000 0 10		000 0 1
Total Population	79,755	148,987	203,005	257,846	311,996	366,94
	5 000		45.005	40.000	02.400	07.00
Water Use (m3/d)	5,982	11,174	15,225	19,338	23,400	27,52
. Total Domestic Water Use (D+E+F)						
Total Connected Population	1,561,665	1,742,800	1,769,600	1,796,400	1,815,550	1,834,70
Total Domestic Water Use (m3/d)	179,896	225,256	247,116	270,543	295,024	321,07
Industrial Water Use	179,080	220,200	247,110	210,040	200,024	041,01
Total Industrial Area (ha)	877	986	1,082	1,177	1,208	1,23
Total madoular Area (na)	0//	300	1,002	1,117	1,200	1,20
Industrial Water Use (m3/d)	7,606	8,255	8,843	9,432	9,340	9,24
Commercial Water Use	1,000	0,200		0,02		0,24
Total Commercial Area (ha)	585	636	679	721	744	76
Polar Commercial Field (hay	000	000				10
Commercial Water Use (m3/d)	46,105	51,936	57,325	62,911	64,352	65,79
Institutional Water Use						
Total Institutional Area (ha)	1,035	1,056	1,068	1,080	1,090	1,09
		,	.,			-,
Institutional Water Use (m3/d)	35,481	37,881	39,567	41,296	41,544	41.79
Total Net Water Use (m3/d) (H+I+J+K)	269,088	323,328	352,851	384,181	410,260	437,90
. Water Loss						
Water Loss (m3/d)	146,839	138,521	150,879	164,011	154,415	144,24
· · · · · · · · · · · · · · · · · · ·	1.11.11					
. Total Water Demand (m3/d) (L+M)						
	415,927	461,849	503,730	548,192	564,675	582,15

Projected Full Development Water Demand (Revised Projection) District: COLOMBO Division COLOMBO M.C.

		ZEAR		an a	and the second secon	وسلما إهجاب أهيدها المراشة محتجز أرعاوي
	1995	2000	2005	2010	2015	2020
A. Projected Population	752,400	760,000	765,350	770,700	773,550	776,400
Total of Residential, Commercial, Industria	, and institution	nal i				
Land Use Area (ha) (Annex.F)	2,759	2,776	2,778	2,780	2,774	2,768
Net Population Density (pop./ha)	273	274	276	277	279	280
B. Service Ratio (%)	99	100	100	100	100	100
C. Total Service Population (A*B/100)	746,757	760,000	765,350	770,700	773,550	776,400
D. Direct Connection						
D1 Percentage of Connected Population	(Projected)					
	61.8	65.5	69.1	72.7	76.4	80.0
D2 Population (C*D1/100)	461,745	497,547	528,857	560,556	590,734	621,120
D3 Unit Rate (l/cap/d)	146	165	173.5	182	191	200
D4 Water Use (m3/d) (D2*D3/1000)	67,415	82,095	91,757	102,021	112,830	124,224
E. Community Tap						
E1 Percentage of Connected Population	34.8	27.9	20.9	13,9	7.0	0.0
E2 Population (C*E1/100)	260,120	211,787	159,958	107,384	53,891	0
E3 Unit Rate (l/cap/d)	53	53	53	53	53	53
E4 Water Use (m3/d) (E2*E3/1000)	13,786	11,225	8,478	5,691	2,856	0
F. Yard Tap						
F1 Percentage of Connected Population	3.3	6.7	10,0	13.3	16.7	20.0
F2 Population (C*F1/100)	24,892	50,667	76,535	102,760	128,925	155,280
F3 Unit Rate (I/cap/d)	75	75	75	75	75	75
F4 Water Use (m3/d) (F2*F3/1000)	1,867	3,800	5,740	7,707	9,669	11,646
Total of Percentage (D4+E4+F4)	100	100	100	100	100	100
H. Total Domestic Water Use (D+E+F)						
H1 Total Connected Population	746,757	760,000	765,350	770,700	773,550	776,400
H2 Total Domestic Water Use (m3/d)	83,068	97,120	105,975	115,420	125,356	135,870
I, Industrial Water Use			{			
Industrial Area (ha)	160	155	150	145	140	135
Unit Rate (Vha/d)	16476	16476	16476	16476	16476	16476
Industrial Water Use (m3/d)	2,636	2,554	2,471	2,389	2,307	2,224
J. Commercial Water Use					0.00	0.00
Commercial Area (ha)	223	225	225	225	225	225
Unit Rate (I/ha/d)	136411	146953	158311	170546	170546	170546
Commercial Water Use (m3/d)	30,420	33,065	35,620	38,373	38,373	38,373
K. Institutional Water Use						
Institutional Area (ha)	497	487	477	467	457	447
Unit Rate (l/ha/d)	32674	35199	37920	40850	40850	40850
Institutional Water Use (m3/d)	16,239	17,142	18,088	19,077	18,669	18,260
L. Total Net Water Use (m3/d) (H+I+J+K)	132,363	149,880	162,153	175,258	184,704	194,727
M. Water Loss						
M1 Water Loss Ratio (%)	40.0	35.0	35.0	35.0	32.5	30.0
M2 Water Loss (m3/d) (L/(100-M1)*M1)		1				
	88,242	80,705	87,313	94,370	88,931	83,454
N. Total Water Demand (m3/d) (L+M)					070 007	070.404
	220,605	230,585	249,467	269,628	273,635	278,181

Projected Full Development Water Demand (Revised Projection) District: COLOMBO

Division DEHIWELA-Mt.LAVINIA M.C.

YEAR								
	1995	2000	2005	2010	2015	2020		
A. Projected Population	232,100	242,400	243,000	243,600	243,750	243,900		
Total of Residential, Commercial, Industria	, and Institutio							
Land Use Area (ha) (Annex.F)	1,562	1,626	1,626	1,626	1,626	1,626		
Net Population Density (pop /ha)	149	149	149	150	150	150		
B. Service Ratio (%)	97	100	100	100	100	100		
C. Total Service Population (A*B/100)	224,441	242,400	243,000	243,600	243,750	243,900		
D. Direct Connection								
D1 Percentage of Connected Population	(Projected)							
	68.9	71.1	73.4	75.6	77.8	80.0		
D2 Population (C*D1/100)	154,677	172,427	178,241	184,080	189,597	195,120		
D3 Unit Rate (I/cap/d)	149	165	173.5	182	191	200		
D4 Water Use (m3/d) (D2*D3/1000)	23,047	28,450	30,925	33,503	36,213	39,024		
E. Community Tap								
E1 Percentage of Connected Population	27.8	22.2	16.7	11.1	5.5	0.0		
E2 Population (C*E1/100)	62,282	53,813	40,460	27,040	13,528	0		
E3 Unit Rate (Vcap/d)	53	53	53	53	53	53		
E4 Water Use (m3/d) (E2*E3/1000)	3,301	2,852	2,144	1,433	717	. 0		
. Yard Tap								
F1 Percentage of Connected Population	3.3	6.7	10.0	13.3	16.7	20.0		
F2 Population (C*F1/100)	7,481	16,160	24,300	32,480	40,625	48,780		
F3 Unit Rate (l/cap/d)	. 75	75	75	75	75	75		
F4 Water Use (m3/d) (F2*F3/1000)	561	1,212	1,823	2,436	3,047	3,659		
fotal of Percentage (D4+E4+F4)	100	100	100	100	100	100		
I. Total Domestic Water Use (D+E+F)								
H1 Total Connected Population	224,441	242,400	243.000	243.600	243,750	243,900		
H2 Total Domestic Water Use (m3/d)	26,909	32,515	34,892	37.372	39,977	42.683		
Industrial Water Use								
Industrial Area (ha)	162	175	175	175	175	175		
Unit Rate (l/ha/d)	3749	3749	3749	3749	3749	3749		
Industrial Water Use (m3/d)	607	656	656	656	656	656		
Commercial Water Use								
Commercial Area (ha)	29	31	31	31	31	31		
Unit Rate (l/ha/d)	137667	137667	137667	137667	137667	137667		
Commercial Water Use (m3/d)	3,992	4,268	4,268	4,268	4,268	4,268		
Institutional Water Use								
Institutional Area (ha)	91	100	100	100	100	100		
Unit Rate (l/ha/d)	76612	76612	76612	76612	76612	76612		
Institutional Water Use (m3/d)	6,972	7,661	7,661	7,661	7,661	7,661		
. Total Net Water Use (m3/d) (H+I+J+K)	38,480	45,100	47,477	49,957	52,562	55,267		
. Water Loss						00,201		
M1 Water Loss Ratio (%)	30.0	25.0	25.0	25.0	22.5	20.0		
M2 Water Loss (m3/d) (L/(100-M1)*M1)	50.0	20.0	20.0	20.0	22.5	20.0		
	16,492	15,033	15,826	16,652	15,260	13,817		
. Total Water Demand (m3/d) (L+M)	10,492	10,000	10,020		10,200	13,017		
· Total Marcel Demand (mord) (EMM)					· · · · · ·	,		

Projected Full Development Water Demand (Revised Projection) District: COLOMBO

Division KOTTE U.C.

			YEAR			0015	
		1995	2000	2005	2010	2015	2020
A.	Projected Population	135,900	141,400	146,700	152,000	156,450	160,900
	Total of Residential, Commercial, Industria	, and Institutio	nal				
	Land Use Area (ha) (Annex.F)	1,079	1,132	1,176	1,220	1,262	1,30
	Net Population Density (pop./ha)	126	125	125	125	124	12
Β.	Service Ratio (%)	97	100	100	100	100	10
c.	Total Service Population (A*B/100)	131,483	141,400	146,700	152,000	156,450	160,90
D.							
	D1 Percentage of Connected Population	(Projected)					
		78.3	78.7	79.0	79.3	79.7	80.
	D2 Population (C*D1/100)	102,995	111,235	115,893	120,587	124.639	128,72
	D3 Unit Rate (Vcap/d)	158	165	173,5	182	191	200
	D4 Water Use (m3/d) (D2*D3/1000)	16,273	18,354	20,107	21,947	23,806	25,74
Ē.			10,004	20,107	21,011	2.0,000	2,0,11
	E1 Percentage of Connected Population	18.3	14.7	11.0	7.3	3.7	0.0
	E2 Population (C*E1/100)	24.105	20,739	16,137	11,147	5,737	0.0
		53	53		· · ·	• •	5
				53	53	53	
	E4 Water Use (m3/d) (E2*E3/1000)	1,278	1,099	855	591	304	<u> </u>
Ξ.	Yard Tap						
	F1 Percentage of Connected Population	3.3	6.7	10.0	13.3	16.7	20.0
	F2 Population (C*F1/100)	4,383	9,427	14,670	20,267	26,075	32,180
	F3 Unit Rate (I/cap/d)	75	75	75	75	75	75
	F4 Water Use (m3/d) (F2*F3/1000)	329	707	1,100	1,520	1,956	2,414
Fot	al of Percentage (D4+E4+F4)	100	100	100	100	100 [100
1. 1	Total Domestic Water Use (D+E+F)			··· · · · · · · · · · · · · · · · · ·			
	H1 Total Connected Population	131,483	141,400	146,700	152,000	156,450	160,900
	H2 Total Domestic Water Use (m3/d)	17,880	20,160	22,063	24.058	26,066	28,158
. In	dustrial Water Use						
	Industrial Area (ha)	35	40	45	50	55	60
	Unit Rate (l/ha/d)	3900	3900	3900	3900	3900	3900
	Industrial Water Use (m3/d)	137	156	176	195	215	234
	Commercial Water Use	107		- 1/0		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	20
	Commercial Area (ha)	52	62	72	82	92	102
	Unit Rate (I/ha/d)	75338	75338	75338	75338	75338	75338
		3,918					
	Commercial Water Use (m3/d)	3,910	4,671	5,424	6,178	6,931	7,684
	Institutional Water Use						
	Institutional Area (ha)	77	88	99	110	121	132
	Unit Rate (I/ha/d)	37090	37090	37090	37090	37090	37090
	Institutional Water Use (m3/d)	2,856	3,264	3,672	4,080	4,488	4,896
	Total Net Water Use (m3/d) (H+I+J+K)	24,790	28,251	31,335	34,510	37,699	40,972
	Water Loss						
	M1 Water Loss Ratio (%)	30.0	25.0	25.0	25.0	22.5	20.0
	M2 Water Loss (m3/d) (L/(100-M1)*M1)						
		10,624	9,417	10,445	11,503	10,945	10,243
Ī,	Total Water Demand (m3/d) (L+M)						
		35,414	37,668	41,780	46,014	48,644	51,215

Projected Full Development Water Demand (Revised Projection) District: COLOMBO Division KOLONNAWA U.C.

—	<u>᠄᠁ᡶᡒ᠆ᠼᢊᠵᡄᠴ᠔ᡖᡄᡀᡎᡄ</u> ᡷᡧᠧᡬᡱᡫᢊᡄᡄᡄᡡᠴᠴᡄᠴᠴᡄᡣᡄᡁᡩ᠄ᢤᢤᡂᡚᡄᠿᡄᢤᡄᡊᠴᠴ᠂ᠴ᠋᠁ᠰᢕᡡᡘᠥᡣᠧᡡᠧᡡᡒ᠈ᡔᠢ᠁ ᠂		YEAR	اسانی استان است. بینی میں دور بینی میرین میرین 			
1		1995	2000	2005	2010	2015	2020
Ā.	Projected Population	56,000	59,600	59,800	60,000	60,050	60,100
	Total of Residential, Commercial, Industria		nal				
	Land Use Area (ha) (Annex.F)	343	392	426	460	494	527
	Net Population Density (pop./ha)	163	152	140	130	122	114
Β.	Service Ratio (%)	100	100	100	100	100	100
C.	Total Service Population (A*B/100)	55,720	59,600	59,800	60,000	60,050	60,100
D.							1.
	D1 Percentage of Connected Population						
		41.3	49.0	56.8	64.5	72.3	80.0
. '	D2 Population (C*D1/100)	22,985	29,204	33,937	38,700	43,386	48,080
	D3 Unit Rate (I/cap/d)	158	165	173.5	182	191	200
	D4 Water Use (m3/d) (D2*D3/1000)	3,632	4,819	5,888	7,043	8,287	9,616
Ε.	Community Tap				· · · · ·		
	E1 Percentage of Connected Population	55.4	44.3	33.3	22.2	11 1	0.0
	E2 Population (C*E1/100)	30,878	26,423	19,884	13,300	6,656	0
	E3 Unit Rate (Vcap/d)	53	53	53	53	53	53
	E4 Water Use (m3/d) (E2*E3/1000)	1,637	1,400	1,054	705	353	0
F.	Yard Tap		(
	F1 Percentage of Connected Population	3.3	6.7	10.0	13.3	16.7	20.0
	F2 Population (C*F1/100)	1,857	3,973	5,980	8,000	10,008	12,020
	F3 Unit Rate (I/cap/d)	75	75	75	75	75	75
	F4 Water Use (m3/d) (F2'F3/1000)	139	298	449	600	751	902
	al of Percentage (D4+E4+F4)	100	100	100	100	100	100
H.	Total Domestic Water Use (D+E+F)						
	H1 Total Connected Population	55,720	59,600	59,800	60,000	60,050	60,100
	H2 Total Domestic Water Use (m3/d)	5,407	6,517	7,390	8,348	9,390	10,518
l. II	ndustrial Water Use						
	Industrial Area (ha)	90	121	152	183	214	244
	Unit Rate (I/ha/d)	87	87	87	87	87	87
	Industrial Water Use (m3/d)	8	11	13	16	19	21
J.	Commercial Water Use						·
	Commercial Area (ha)	12	15	18	21	24	27
	Unit Rate (I/ha/d)	85680	85680	85680	85680	85680	85680
	Commercial Water Use (rn3/d)	1,028	1,285	1,542	1,799	2,056	2,313
К.	Institutional Water Use	[
	Institutional Area (ha)	6	7	7	7	· 7	7
	Unit Rate (l/ha/d)	74813	74813	74813	74813	74813	74813
	Institutional Water Use (m3/d)	449	524	524	524	524	524
L.	Total Net Water Use (m3/d) (H+I+J+K)	6,892	8,336	9,469	10,687	11,989	13,376
W.	Water Loss				274		
	M1 Water Loss Ratio (%)	30.0	25.0	25.0	25.0	22.5	20.0
•	M2 Water Loss (m3/d) (L/(100-M1)*M1)					4	
_		2,954	2,779	3,156	3,562	3,481	3,344
Ń.	Total Water Demand (m3/d) (L+M)						
		9,846	11,115	12,626	14,250	15,469	16,720

Projected Full Development Water Demand (Revised Projection) District: COLOMBO Division MORATUWA U.C.

na n		YEAR	ويستنقفه فالشاغا والمري ويوتنا وا			والملاذية ومشارعة مسجوه والواوية عشرته
•	1995	2000	2005	2010	2015	2020
ected Population	187,700	191,100	193,300	195,500	199,200	202,900
al of Residential, Commercial, Industria	and Institutio	nal				
d Use Area (ha) (Annex.F)	1,526	1,559	1,586	1,613	1,633	1,653
Population Density (pop./ha)	123	123	122	121	122	123
vice Ratio (%)	86	100	100	100	100	100
al Service Population (A*B/100)	160,953	191,100	193,300	195,500	199,200	202,900
ect Connection					· 1	
Percentage of Connected Population	(Projected)	1		1		
u	60.8	64.7	68.5	72.3	76.2	80.0
Population (C*D1/100)	97,913	123,578	132,411	141,412	151,724	162,320
Unit Rate (I/cap/d)	153	165	173.5	182	191	200
Water Use (m3/d) (D2*D3/1000)	14,981	20,390	22,973	25,737	28,979	32,464
nmunity Tap						
Percentage of Connected Population	35.8	28.7	21.5	14.3	7.2	0.0
Population (C*E1/100)	57,675	54,782	41,560	28,022	14,276	0
Unit Rate (l/cap/d)	53	53	53	53	53	53 0
Water Use (m3/d) (E2*E3/1000)	3,057	2,903	2,203	1,485	757	0
d Tap			10.0	42.0	46.7	20.0
Percentage of Connected Population	3.3	6.7	10.0	13.3	16.7	40,580
Population (C*F1/100)	5,365	12,740	19,330	26,067 75	33,200 75	40,560
Unit Rate (I/cap/d)	75	75	- 75			3,044
Water Use (m3/d) (F2*F3/1000)	402	956	1,450	1,955	2,490 100	3,044
Percentage (D4+E4+F4)	100	100	100	100		100
Domestic Water Use (D+E+F)	400.050	401 400	193,300	195,500	199,200	202,900
Total Connected Population	160,953		26,626	29,177	32,226	35,508
Total Domestic Water Use (m3/d)	18,440	24,249	20,020	29,177	02,220	00,000
rial Water Use	147	153	159	165	167	169
Industrial Area (ha)		6475	6475	6475	6475	6475
Unit Rate (Vha/d)	6475 952	991	1,030	1,068	1,081	1,094
Industrial Water Use (m3/d)	952	991	1,030	1,000	1,001	
nmercial Water Use Commercial Area (ha)	83	95	107	118	122	125
	15291	15291	15291	15291	15291	15291
Unit Rate (I/ha/d) Commercial Water Use (m3/d)	1,269	1,453	1,628	1,804	1,858	1,911
itutional Water Use	1,205	1,-00	1,020	1,007		
Institutional Area (ha)	139	142	145	148	151	154
Unit Rate (I/ha/d)	3648	3648	3648	3648	3648	3648
Institutional Water Use (m3/d)	507	518	529	540	551	562
	21,168	27,211	29,813	32,590	35,716	39,075
	21,100	113,13				
	30.0	25.0	25.0	25.0	22.5	20.0
Water Loss (m3/d) /1 //100_M1)*M1)	1 00.0	20.0	20.0			
water coss (more) (co (more) mil)	9 072	9 070	9,938	10.863	10,369	9,769
al Mater Demand (m3/d) (1+M)						
a reaction pentana (movo) (c. m)	30 240	36 281	39,750	43,453	46,085	48,844
te	I Net Water Use (m3/d) (H+I+J+K) er Loss Water Loss Ratio (%) Water Loss (m3/d) (L/(100-M1)*M1) Water Demand (m3/d) (L+M)	r Loss Water Loss Ratio (%) 30.0 Water Loss (m3/d) (L/(100-M1)*M1) 9,072	br Loss 30.0 25.0 Water Loss Ratio (%) 30.0 25.0 Water Loss (m3/d) (L/(100-M1)*M1) 9,072 9,070 Water Demand (m3/d) (L+M) 9,072 9,070	or Loss 30.0 25.0 25.0 Water Loss Ratio (%) 30.0 25.0 25.0 Water Loss (m3/d) (L/(100-M1)*M1) 9,072 9,070 9,938 Water Demand (m3/d) (L+M) 9,072 9,070 9,938	or Loss 30.0 25.0 25.0 25.0 Water Loss Ratio (%) 30.0 25.0 25.0 25.0 Water Loss (m3/d) (L/(100-M1)*M1) 9,072 9,070 9,938 10,863 Water Demand (m3/d) (L+M) 9,072 9,070 9,938 10,863	Pr Loss 30.0 25.0 25.0 25.0 22.5 Water Loss Ratio (%) 30.0 25.0 25.0 25.0 22.5 Water Loss (m3/d) (L/(100-M1)*M1) 9,072 9,070 9,938 10,863 10,369 Water Demand (m3/d) (L+M) 9,072 9,070 9,938 10,863 10,369

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Projected Full Development Water Demand (Revised Projection) District: COLOMBO Division KOTIKAWATTE-MULLERIYAWA P.S.

			YEAR				
		1995	2000	2005	2010	2015	2020
Ă.	Projected Population	92,400	98,500	101,500	104,500	107,400	110,300
	Total of Residential, Commercial, Industria	, and Institutio	nal				
	Land Use Area (ha) (Annex.F)	1,483	1,515	1,531	1,546	1,552	1,557
	Net Population Density (pop./ha)	62	65	66	68	69	71
	Service Ratio (%)	67	100	100	100	100	100
	Total Service Population (A*B/100)	61,908	98,500	101,500	104,500	107,400	110,300
	Direct Connection						
	D1 Percentage of Connected Population	(Projected)					
	st forestinge of control of states	49.3	55.5	61.6	67.7	73.9	80.0
	D2 Population (C*D1/100)	30,541	54,635	62,524	70,781	79,333	88,240
	D3 Unit Rate (l/cap/d)	148	165	173.5	182	191	200
	D4 Water Use (m3/d) (D2*D3/1000)	4,520	9,015	10,848	12,882	15,153	17,648
	Community Tap	4,520		10,040	12,002	10,100	17,040
	E1 Percentage of Connected Population	47.3	37.9	28.4	18.9	9.5	0.0
	E2 Population (C*E1/100)	29,303	37,299	28,826	19,785	10,167	0.0
						• •	53
	E3 Unit Rate (l/cap/d)	53	53	53	53	53	
	E4 Water Use (m3/d) (E2*E3/1000)	1,553	1,977	1,528	1,049	539	0
	Yard Tap						
	F1 Percentage of Connected Population	3.3	6.7	10.0	13.3	16.7	20.0
	F2 Population (C*F1/100)	2,064	6,567	10,150	13,933	17,900	22,060
	F3 Unit Rate (I/cap/d)	75	75	75	75	75	75
,	F4 Water Use (m3/d) (F2*F3/1000)	155	493	761	1,045	1,343	1,655
Fota	l of Percentage (D4+E4+F4)	100	100	100	100	100	100
4. T	otal Domestic Water Use (D+E+F)						
	H1 Total Connected Population	61,908	98,500	101,500	104,500	107,400	110,300
	H2 Total Domestic Water Use (m3/d)	6,228	11,484	13,137	14,976	17,034	19,303
	lustrial Water Use	0,210					10,000
	Industrial Area (ha)	133	136	138	140	132	124
	Unit Rate (l/ha/d)	13078	13078	13078	13078	13078	13078
	Industrial Water Use (m3/d)	1,739	1,779	1,805	1,831	1,726	1,622
. (Commercial Water Use	1,739	1,119	1,000	1,031	1,720	1,022
		100		·	in	110	400
	Commercial Area (ha)	108	112	114	116	118	120
	Unit Rate (l/ha/d)	686	686	686	686	686	686
	Commercial Water Use (m3/d)	74	77	78	80	81	82
(,)	nstitutional Water Use						
	Institutional Area (ha)	94	96	. 98	100	102	104
	Unit Rate (I/ha/d)	49968	49968	49968	49968	49968	49968
	Institutional Water Use (m3/d)	4,697	4,797	4,897	4,997	5,097	5,197
	Total Net Water Use (m3/d) (H+I+J+K)	12,738	18,136	19,917	21,883	23,938	26,203
1. 🚺	Water Loss	· .			·		:
٨	A1 Water Loss Ratio (%)	30.0	25.0	25.0	25.0	22.5	20.0
N	M2 Water Loss (m3/d) (L/(100-M1)*M1)		- 1				
		5,459	6,045	6,639	7,294	6,950	6,551
. 1	fotal Water Demand (m3/d) (L+M)						
		18,198	24,182	26,556	29,177	30,888	32,754

Projected Full Development Water Demand (Revised Projection) District: GAMPAHA Division PELIYAGODA U.C.

-							
			YEAR			Sale I	
		1995	2000	2005	2010	2015	2020
A.		36,500	36,800	36,900	37,000	37,150	37,300
	Total of Residential, Commercial, Industria						
	Land Use Area (ha) (Annex.F)	259	265	266	266	266	266
	Net Population Density (pop./ha)	141	139	139	139	140	140
Β.		72	100	100	100	100	100
C.		26,208	36,800	36,900	37,000	37,150	37,300
D.		4					
	D1 Percentage of Connected Population						
		68.9	71.1	73.3	75.6	77.8	80.0
	D2 Population (C*D1/100)	18,054	26,169	27,060	27,956	28,894	29,840
	D3 Unit Rate (Vcap/d)	158	165	173.5	182	191	200
	D4 Water Use (m3/d) (D2*D3/1000)	2,853	4,318	4,695	5,088	5,519	5,968
É.	Community Tap						
	E1 Percentage of Connected Population	27.8	22.2	16.7	11.1	5.6	0.0
	E2 Population (C*E1/100)	7,280	8,178	6,150	4,111	2,064	C
	E3 Unit Rate (I/cap/d)	53	53	53	53	53	53
	E4 Water Use (m3/d) (E2*E3/1000)	386	433	326	218	109	C
F.	Yard Tap						
	F1 Percentage of Connected Population	3.3	6.7	10.0	13.3	16.7	20.0
	F2 Population (C*F1/100)	874	2,453	3,690	4,933	6,192	7,460
	F3 Unit Rate (l/cap/d)	75	75	75	75	- 75	75
	F4 Water Use (m3/d) (F2*F3/1000)	66	184	277	370	464	560
То	tal of Percenlage (D4+E4+F4)	100	100	100	100	100	100
	Total Domestic Water Use (D+E+F)						
•••	H1 Total Connected Population	26,208	36,800	36,900	37,000	37,150	37,300
	H2 Total Domestic Water Use (m3/d)	3,304	4,935	5,298	5,676	6,093	6,528
1	ndustrial Water Use	5,504	4,900			0,095	0,520
	Industrial Area (ha)	61	63	63	63	~	ća
	Unit Rate (l/ha/d)					63	63
	Industrial Water Use (m3/d)	10419 636	10419 656	10419 656	10419 656	10419 656	10419
J.	Commercial Water Use	030	020	000	000	000	656
σ.	Commercial Area (ha)	40	47	47	47	47	47
÷		16	17	17	17	17	17
	Unit Rate (l/ha/d)	105834	105834	105834	105834	105834	105834
	Commercial Water Use (m3/d) Institutional Water Use	1,693	1,799	1,799	1,799	1,799	1,799
٨.		_					~
	Institutional Area (ha)	5	6	6	6	6	6
	Unit Rate (l/ha/d)	50824	50824	50824	50824	50824	50824
	Institutional Water Use (m3/d)	254	305	305	305		305
÷	Total Net Water Use (m3/d) (H+I+J+K)	5,887	7,696	8,058	8,436	8,853	9,288
vI.	Water Loss						
	M1 Water Loss Ratio (%)	30.0	25.0	25.0	25.0	22.5	20.0
	M2 Water Loss (m3/d) (L/(100-M1)*M1)	1					-
		2,523	2,565	2,686	2,812	2,570	2,322
٩.	Total Water Demand (m3/d) (L+M)						
		8,410	10,261	10,744	11,248	11,423	11,610

Projected Full Development Water Demand (Revised Projection) District: GAMPAHA Division WATTALA MABOLE U.C.

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Division WATTALA MABOLE U.C.			· ·			
<u></u>		YEAR				
	1995	2000	2005	2010	2015	2020
A. Projected Population	27,800	28,900	29,450	30,000	30,800	31,600
Total of Residential, Commercial, Industria		nal			1.12	
Land Use Area (ha) (Annex.F)	261	277	289	301	313	325
Net Population Density (pop./ha)	107	104	102	100	98	97
B. Service Ratio (%)	70	100	100	100	100	100
C. Total Service Population (A*B/100)	19,563	28,900	29,450	30,000	30,800	31,600
D, Direct Connection				· · · ·		
D1 Percentage of Connected Population	(Projected)			:		
	68,9	71.1	73,3	75.6	77.8	80.0
D2 Population (C*D1/100)	13,477	20,551	21,597	22,667	23,956	25,280
D3 Unit Rate (l/cap/d)	158	165	173.5	182	191	200
D4 Water Use (m3/d) (D2*D3/1000)	2,129	3,391	3,747	4,125	4,576	5,056
E. Community Tap				1 .		
E1 Percentage of Connected Population	5.3	4.2	3.2	2.1	1.1	0.0
E2 Population (C*E1/100)	1,032	1,220	933	633	325	. 0
E3 Unit Rate (I/cap/d)	53	53	53	53	53	53
E4 Water Use (m3/d) (E2*E3/1000)	55	65	49	34	17	0
F. Yard Tap						
F1 Percentage of Connected Population	25.8	24.7	23.5	22.3	21.2	20.0
F2 Population (C*F1/100)	5.054	7,129	6,921	6,700	6,519	6,320
F3 Unit Rate (l/cap/d)	75	75	75	75	75	75
F4 Water Use (m3/d) (F2*F3/1000)	379	535	519	503	489	474
Total of Percentage (D4+E4+F4)	100	100	100	100	100	100
H. Total Domestic Water Use (D+E+F)						· · ·
H1 Total Connected Population	19,563	28,900	29,450	30,000	30,800	31,600
H2 Total Domestic Water Use (m3/d)	2,563	3,990	4,316	4,661	5 082	5 530
i. Industrial Water Use						······································
Industrial Area (ha)	38	43	48	52	57	61
Unit Rate (l/ha/d)	10419	10419	10419	10419	10419	10419
Industrial Water Use (m3/d)	396	448	495	542	589	636
J. Commercial Water Use						
Commercial Area (ha)	7	11	15	18	22	25
Unit Rate (l/ha/d)	105834	105834	105834	105834	105834	105834
Commercial Water Use (m3/d)	741	1.164	1,535	1,905	2,275	2 646
K. Institutional Water Use			1,000	1,000	~~~~~	
Institutional Area (ha)	8	9	10	11	12	-13
Unit Rate (l/ha/d)	50824	50824	50824	50824	50824	50824
Institutional Water Use (m3/d)	407	457	508	559	610	661
Total Net Water Use (m3/d) (H+I+J+K)	4.106	6,060	6,853	7,667	8,556	9,472
M. Water Loss	4,100	0,000	0,000	1,007		5,472
	20.0	25.0	25.0	250	22 5	20.0
M1 Water Loss Ratio (%)	30.0	25.0	25.0	25.0	22.5	20.0
M2 Water Loss (m3/d) (L/(100-M1)*M1)	1 200	0.000	0.001	0.550	0.484	0.000
Tala (Malas Daman J (2010 / 210	1,760	2,020	2,284	2,556	2,484	2,368
N. Total Water Demand (m3/d) (L+M)	6 000	0.000	0.400	10.000	44.040	14.040
	5,866	8,080	9,138	10,223	11,040	11,840

Projected Full Development Water Demand (Revised Projection) District: GAMPAHA Division KELANIYA P.S.

		المتحكم والمسابقة والمتحدين والمعتمين والمعاون والم	YEAR	13-19-19-19-19-19-19-19-19-19-19-19-19-19-			
		1995	2000	2005	2010	2015	2020
Δ	Projected Population	120,900	132,300	140,700	149,100	151,500	153,900
л.	Total of Residential, Commercial, Industria		nal				
	Land Use Area (ha) (Annex.F)	1,435	1,557	1,667	1,777	1,779	1,780
	Net Population Density (pop./ha)	84	85	. 84	84	85	86
в.		72	100	100	100	100	100
	Total Service Population (A*B/100)	87,650	132,300	140,700	149,100	151,500	153,900
<u>c.</u>		07,000	102,000			·	
D.		(Drainatad)			1		
	D1 Percentage of Connected Population	64.4	67.5	70.6	73.7	76.9	80.0
		56,406	89,280	99,351	109,949	116,459	123,120
	D2 Population (C*D1/100)		165	173.5	182	191	200
[D3 Unit Rate (I/cap/d)	158		17,237	20,011	22,244	24,624
	D4 Water Use (m3/d) (D2*D3/1000)	8,912	14,731	11,231	20,011	22,277	27,027
Ĕ.	Community Tap				3.9	2.0	0.0
	E1 Percentage of Connected Population	9.8	7.9	5.9			0.0
	E2 Population (C*E1/100)	8,601	10,386	8,284	5,852	2,973	-
	E3 Unit Rate (l/cap/d)	53	53	53	53	53	53
	E4 Water Use (m3/d) (E2*E3/1000)	456	550	439	310	158	0
F.	Yard Tap						
ľ.	F1 Percentage of Connected Population	25.8	24.7	23.5	22.3	21.2	20,0
	F2 Population (C*F1/100)	22.643	32,634	33,065	33,299	32,068	30,780
	F3 Unit Rate (I/cap/d)	75	75	75	75	75	75
	F4 Water Use (m3/d) (F2*F3/1000)	1,698	2,448	2,480	2,497	2,405	2,309
	tal of Percentage (D4+E4+F4)	100	100	100	100	100	100
10	Total Domestic Water Use (D+E+F)	100					
н.	Total Domestic Water Use (D+E+r)	87,650	132,300	140,700	149,100	151,500	153,900
	H1 Total Connected Population	11,050	17,729	20,156	22,818	24,806	26,933
	H2 Total Domestic Water Use (m3/d)	11,000	11,125	20,100	22,010	2 1,000	
II. II	ndustrial Water Use	20	87	137	187	187	187
	Industrial Area (ha)	39		10419	10419	10419	10419
	Unit Rate (I/ha/d)	10419	10419		1,948	1,948	1,948
	Industrial Water Use (m3/d)	406	906	1,427	1,940	1,940	1,840
IJ.	Commercial Water Use					59	59
	Commercial Area (ha)	. 24	35	47	59		
	Unit Rate (I/ha/d)	105834	105834	105834	105834	105834	105834
	Commercial Water Use (m3/d)	2,540	3,704	4,974	6,244	6,244	6,244
K.	Institutional Water Use						
	Institutional Area (ha)	49	51	54	57	59	60
	Unit Rate (l/ha/d)	50824	50824	50824	50824	50824	50824
	Institutional Water Use (m3/d)	2,490	2,592	2,744	2,897	2,973	3,049
<u> </u>	Total Net Water Use (m3/d) (H+I+J+K)	16,503	24,932	29,302	33,908	35,972	38,174
<u>ь.</u> М.		,0,000				· · · · · · · · ·	
WI.		30.0	25.0	25.0	25.0	22.5	20.0
	M1 Water Loss Ratio (%)		20.0		20.0		
	M2 Water Loss (m3/d) (L/(100-M1)*M1)	7 070	0.24	9,767	11,303	10,444	9,544
		7,073	8,311	9,101	11,505	10,444	5,544
Ν.	Total Water Demand (m3/d) (L+M)			00.070	15 010	AC 416	47,718
	1	23,576	33,243	39,070	45,210	46,416	41,110

Projected Full Development Water Demand (Revised Projection) District: KALUTARA

Division PANADURA U.C.

Г	anna an ann an ann an ann an ann an ann an a		YEAR			ر چر چین میں کر اور میں اور میں اور میں اور میں اور اور اور او اور اور اور اور اور اور اور اور اور اور	
		1995	2000	2005	2010	2015	2020
A.	Projected Population	38,000	38,600	38,600	38,600	38,950	39,300
1	Total of Residential, Commercial, Industria	, and Institutio	nal				•
	Land Use Area (ha) (Annex.F)	470	475	477	478	481	484
	Net Population Density (pop./ha)	81	81	81	81	81	81
Β.	Service Ratio (%)	97	100	100	100	100	100
C.	Total Service Population (A*B/100)	37,000	38,600	38,600	38,600	38,950	39,300
D						00,000	00,000
	D1 Percentage of Connected Population	(Projecteri)					
		61.9	65.6	69.2	72.8	76.4	80.0
	D2 Population (C*D1/100)	22,919	25,304	26,698	28,092	29,753	31,440
	D3 Unit Rate (Vcap/d)	139	165	173.5	182	191	200
	D4 Water Use (m3/d) (D2*D3/1000)	3,186	4,175	4,632	5,113	5,683	6,288
Ε.	Community Tap			4,002		5,005	0,200
	E1 Percentage of Connected Population	34.7	27.8	20.8	13,9		0.0
	E2 Population (C*E1/100)	12,847	10,722	8,042	5,361	6.9 2.705	0.0
	E3 Unit Rate (I/cap/d)	53	53	53			0 53
	E4 Water Use (m3/d) (E2*E3/1000)	681	1	1	53	53	
F.	Yard Tap		568	426	284	143	0
•	F1 Percentage of Connected Population		0.7		100		
	F2 Population (C*F1/100)	3.3	6.7	10.0	13.3	16.7	20.0
		1,233	2,573	3,860	5,147	6,492	7,860
		75	75	75	75	75	75
r		- 93	193	290	386	487	590
	al of Percentage (D4+E4+F4)	100	100	100	100	100	100
1.	Total Domestic Water Use (D+E+F)		ľ	l l			
	H1 Total Connected Population	37,000	38,600	38,600	38,600	38,950	39,300
	H2 Total Domestic Water Use (m3/d)	3,959	4,937	5,348	5,783	6,313	6,878
. In	dustrial Water Use						//*** *
	Industrial Area (ha)	4	4	5	5	5	5
	Unit Rate (I/ha/d)	4200	4200	4200	4200	4200	4200
	Industrial Water Use (m3/d)	17	: 17	19	21	21	.21
Ι.	Commercial Water Use						
	Commercial Area (ha)	19	19	19	19	19	19
	Unit Rate (l/ha/d)	16100	16100	16100	16100	16100	16100
	Commercial Water Use (m3/d)	306	306	306	306	306	306
ζ.	Institutional Water Use						
	Institutional Area (ha)	38	38	39	40	40	40
	Unit Rate (I/ha/d)	7788	7788	7788	7788	7788	
	Institutional Water Use (m3/d)	296	296	304			7788
	Total Net Water Use (m3/d) (H+I+J+K)	4,578			312	312	312
1.	Water Loss	4,010	5,555	5,976	6,421	6,952	7,516
	M1 Water Loss Ratio (%)	30.0	05.0	05.0	05.0		
	M2 Water Loss (m3/d) (L/(100-M1)*M1)	30.0	25.0	25.0	25.0	22,5	20.0
	ma water coss (mord) (D(HOO-WH) MT)	4.000					
	Total Mater Demand (-2/4) // +64	1,962	1,852	1,992	2,140	2,018	1,879
•	Total Water Demand (m3/d) (L+M)		·				
-		6,540	7,407	7,969	8,562	8,970	9,395

Projected Full Development Water Demand (Revised Projection) District: KALUTARA

Division HORANA U.C.

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	YEAR											
		1995	2000	2005	2010	2015	2020					
A.	Projected Population	12,100	13,200	14,300	15,400	16,750	18,100					
	Total of Residential, Commercial, Industria	and Institution	nal	4								
1	Land Use Area (ha) (Annex.F)	186	200	213	226	239	252					
1	Net Population Density (pop./ha)	65	66	67	68	70	72					
8.	Service Ratio (%)	83	100	100	100	100	100					
C.	Total Service Population (A*B/100)	9,983	13,200	14,300	15,400	16,750	18,100					
D.	Direct Connection					·						
	D1 Percentage of Connected Population	(Projected)				i l						
1		49.2	55.3	61.5	67.7	73.8	80.0					
	D2 Population (C*D1/100)	4,908	7,304	8,795	10,421	12,367	14,480					
	D3 Unit Rate (Vcap/d)	146	165	173.5	182	191	200					
1	D4 Water Use (m3/d) (D2*D3/1000)	717	1,205	1,526	1,897	2,362	2,896					
E.	Community Tap											
1	E1 Percentage of Connected Population	11.7	9,3	7.0	4.7	2,3	0,0					
ł	E2 Population (C*E1/100)	1,165	1,232	1,001	719	391	0					
	E3 Unit Rate (Vcap/d)	53	53	53	53	53	53					
	E4 Water Use (m3/d) (E2*E3/1000)	62	65	53	38	21	0					
F	Yard Tap											
ľ.	F1 Percentage of Connected Population	39.2	35,3	31.5	27.7	23.8	20.0					
	F2 Population (C*F1/100)	3,910	4.664	4,505	4,261	3,992	3,620					
	F3 Unit Rate (l/cap/d)	75	75	75	75	75	75					
	F4 Water Use (m3/d) (F2*F3/1000)	293	350	338	320	299	272					
Tot	at of Percentage (D4+E4+F4)	100	100	100	100	100	100					
H.	Total Domestic Water Use (D+E+F)											
ľ.	H1 Total Connected Population	9,983	13,200	14,300	15,400	16,750	18,100					
1	H2 Total Domestic Water Use (m3/d)	1 072	1,620	1,917	2,254	2,682	3,168					
1.10	dustrial Water Use		1,010			2,002						
ſ	Industrial Area (ha)	8	9	11	12	14	15					
1	Unit Rate (I/ha/d)	9064	9064	9064	9064	9064	9064					
	Industrial Water Use (m3/d)	73	82	95	109	122	136					
J	Commercial Water Use											
	Commercial Area (ha)	12	14	15	15	16	16					
	Unit Rate (I/ha/d)	10350	10350	10350	10350	10350	10350					
	Commercial Water Use (m3/d)	124	145	150	155	160	166					
K.	Institutional Water Use	16-1		100								
ľ	Institutional Area (ha)	31	32	33	34	35	36					
1 · · ·	Unit Rate (I/ha/d)	10150	10150	10150	10150	10150	10150					
1	Institutional Water Use (m3/d)	315	325	335	345	355	365					
<u> </u>	Total Net Water Use (m3/d) (H+I+J+K)	1,583	2,172	2,497	2,863	3,320	3,834					
M.	Water Loss	1,000	4,176	2,431	2,000	5,520						
f.	M1 Water Loss Ratio (%)	30.0	25.0	25.0	25.0	22.5	20,0					
1.	M2 Water Loss (m3/d) (L/(100-M1)*M1)		20.0	23.0	20.0	22.5	20,0					
	wiz water Loss (mord) (L/(100-M1) ⁻ M1)	670	704	000	0.0.4	001	050					
61-	Total Major Demand (-2/4) /L +M	678	724	832	954	964	959					
нч. -	Total Water Demand (m3/d) (L+M)	0.004	0.007	0.000	0.040	1001	4 700					
		2,261	2,895	3,329	3,818	4,284	4,793					

Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption)

TOTAL OF NEW SERVICE AREA DEMAND

ĸĸĸĸĸĸŧĸĸĸĸĸĸĸĊĸŎſŧŎŎŢŎŢŦĊĸĊĬĸĸĸĸĸĸĸĸĸĸĸĊĬŎŎĸŎĹŎĊĬĔĊĬĊĊŎŢŎĸĊĸŢĸŎĸŢŎĊŎŢĔŎĬŎĸŎĬŎŎŎŎŎŎŎŎŎ		YEAR				
	1995	2000	2005	2010	2015	2020
A. Projected Population	1,486,650	1,681,000	1,875,175	2,069,350	2,272,725	2,476,100
Total of Residential, Commercial, Industria			1 - Li			1.1
Land Use Area (ha) (Annex.F)	24,242	26,094	27,691	29,287	30,652	32,016
Net Population Density (pop./ha)	61	64	68	71	74	77
B. Total Service Population (A*B/100)	1,139,765	1,316,783	1,500,140	1,689,969	1,893,938	2,104,685
C. Average Service Ralio	77	78	80	82	83	85
D. Direct Connection						
•		-				
Total Population	683,859	790,070	900,084	1,013,982	1,136,363	1,262,811
Water Use (m3/d)	86,166	105,079	125,562	148,041	175,000	204,575
E. Community Tap						
· · ·		1. A.			:	
Total Population	94,980	87,786	75,007	56,332	31,566	(
				1		
Water Use (m3/d)	5,034	4,653	3,975	2,986	1,673	
F. Yard Tap						
			·	1 - F		
Total Population	360,926	438,928	525,049	619,655	726,009	841,874
	41				•	
Water Use (m3/d)	27,069	32,920	39,379	46,474	54,451	63,141
				nie indie Leaner is man der sie ferst		
H. Total Domestic Water Use (D+E+F)						•
H1 Total Connected Population	1,139,765	1,316,783	1,500,140	1,689,969	1,893,938	2,104,685
H2 Total Domestic Water Use (m3/d)	118,270	142,652	168,916	197,501	231,124	267,716
. Industrial Water Use						
Total Industrial Area (ha)	2,007	2,506	2,939	3,372	3,766	4,160
				1		
Industrial Water Use (m3/d)	18,188	22,717	26,639	30,561	34,133	37,706
J. Commercial Water Use						
Total Commercial Area (ha)	967	1,048	1,116	1,184	1,252	1,320
Commercial Water Use (m3/d)	53,632	58,807	63,046	67,286	71,486	75,687
K Institutional Water Use				14 - j		
Total Institutional Area (ha)	1,239	1,390	1,495	1,601	1,694	1,788
Institutional Water Use (m3/d)	35,467	40,001	42,980	45,959	48,553	51,148
Total Net Water Use (m3/d) (H+I+J+K)	225,557	264,176	301,580	341,306	385,296	432,257
A. Water Loss						
				a filling and		1. S.
Water Loss (m3/d)	25,062	36,024	49,094	65,011	84,577	108,064
			` [
I. Total Water Demand (m3/d) (L+M)						
	250,619	300,200	350,675	406,317	469,873	540,321

Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption) District: COLOMBO

Division KADUWELA P.S.

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		1995	2000	2005	2010	2015	2020
Ā.	Projected Population	206,600	245,500	290,525	335,550	380,575	425,600
	Total of Residential, Commercial, Industrial	, and Institutio	nal				
	Land Use Area (ha)	1,826	2,133	2,417	2,700	2,984	3,267
	Net Population Density (pop./ha)	113	115	120	124	128	130
8.	Service Ratio (%)	77	78	80	82	83	85
C.	Total Service Population (A*B/100)	158,393	192,308	232,420	274,033	317,146	361,760
D.	Direct Connection						
	D1 Percentage of Connected Population	(Projected)					
		60.0	60	60	60	60	60.0
	D2 Population (C*D1/100)	95,036	115,385	139,452	164,420	190,288	217,056
	D3 Unit Rate (l/cap/d)	126	133	139.5	146	154	162
	D4 Water Use (m3/d) (D2*D3/1000)	11,975	15,346	19,454	24,005	29,304	35,163
Ē.	Community Tap						
	E1 Percentage of Connected Population	8.3	6.7	5.0	3.3	1.7	0.0
	E2 Population (C*E1/100)	13,199	12.821	11,621	9,134	5,286	0
	E3 Unit Rate (Vcap/d)	53	53	53	53	53	53
	E4 Water Use (m3/d) (E2*E3/1000)	700	679	616	484	280	C
۶.							
	F1 Percentage of Connected Population	31.7	33.3	35.0	36.7	38.3	40.0
	F2 Population (C*F1/100)	50,158	64,103	81,347	100,479	121,573	144,704
	F3 Unit Rate (I/cap/d)	75	75	75	75	75	75
	F4 Water Use (m3/d) (F2*F3/1000)	3,762	4,808	6,101	7,536	9.118	10,853
TAF	al of Percentage (D4+E4+E4)	100.0	100.0	100.0	100.0	100.0	100.0
	Total Domestic Water Use (D+E+F)	100.0	100.0		10010		
11.	H1 Total Connected Population	158,393	192,308	232,420	274,033	317,146	361,760
	H2 Total Domestic Water Use (m3/d)	16,436	20,833	26,170	32,025	38,702	46,016
1 7.	ndustrial Water Use	10,450		20,110	02,020		
I. II		307	407	507	607	707	807
	Industrial Area (ha)	9064	9064	9064	9064	9064	9064
	Unit Rate (l/ha/d)		3,689	4,595	5,502	6.408	7,315
	Industrial Water Use (m3/d)	2,783	3,009	4,050		0,400	
J.	Commercial Water Use	80	90	100	110	120	130
	Commercial Area (ha)		1	77951	77951	77951	77951
	Unit Rate (l/ha/d)	77951	77951		8,575	9,354	10,134
	Commercial Water Use (m3/d)	6,236	7,016	7,795	8,375	9,334	10,134
К.				404	207	004	254
	Institutional Area (ha)	• 113	160	184	207	231	
	Unit Rate (I/ha/d)	33426	33426	33426	33426	33426	33426
	Institutional Water Use (m3/d)	3,777	5,348	6,134	6,919	7,705	8,490
L.	Total Net Water Use (m3/d) (H+I+J+K)	29,232	36,886	44,695	53,021	62,169	71,954
М.							n
	M1 Water Loss Ratio (%)	10.0	12.0	14.0	16.0	18.0	20.0
	M2 Water Loss (m3/d) (L/(100-M1)*M1)						
		3,248	5,030	7,276	10,099	13,647	17,989
N.	Total Water Demand (m3/d) (L+M)						
		32,480	41,916	51,971	63,120	75,816	89,943

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Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption) District: COLOMBO

Division MAHARAGAMA P.S.

_			YEAR	, 			
		1995	2000	2005	2010	2015	2020
A.	Projected Population	132,300	144,000	148,950	153,900	158,600	163,300
	Total of Residential, Commercial, Industria	, and Institutio	nal				
	Land Use Area (ha) (Annex.F)	1,467	1,528	1,551	1,574	1,597	1,620
	Net Population Density (pop./ha)	.90	94	96	98	99	101
8.	Service Ratio (%)	77	78	80	82	83	85
С.	Total Service Population (A*8/100)	101,430	112,800	119,160	125,685	132,167	138,805
D,	Direct Connection						
	D1 Percentage of Connected Population						
		60,0	60	60	60	60	60.0
	D2 Population (C*D1/100)	60,858	67,680	71,496	75,411	79,300	83,283
	D3 Unit Rate (I/cap/d)	126	133	139.5	146	154	162
	D4 Water Use (m3/d) (D2*D3/1000)	7,668	9,001	9,974	11,010	12,212	13,492
Ε.	Community Tap						
	E1 Percentage of Connected Population	8.3	6.7	5.0	3.3	1.7	0.0
	E2 Population (C*E1/100)	8,453	7,520	5,958	4,190	2,203	0
	E3 Unit Rate (I/cap/d)	53	53	53	53	53	53
	E4 Water Use (m3/d) (E2*E3/1000)	448	399	316	222	117	0
F.	Yard Tap				·[
	F1 Percentage of Connected Population	31.7	33.3	35.0	36.7	38.3	40.0
	F2 Population (C*F1/100)	32,120	37,600	41,706	46,085	50,664	55,522
	F3 Unit Rate (I/cap/d)	75	75	75	75	75	75
	F4 Water Use (m3/d) (F2*F3/1000)	2,409	2,820	3,128	3,456	3,800	4 164
Tot	al of Percentage (D4+E4+F4)	100.0	100.0	100.0	100.0	100.0	100.0
	Total Domestic Water Use (D+E+F)						
	H1 Total Connected Population	101,430	112,800	119,160	125,685	132,167	138,805
	H2 Total Domestic Water Use (m3/d)	10,525	12,220	13,417	14,688	16,129	17,656
. In	dustrial Water Use					·····	
	Industrial Area (ha)	33	37	40	42	45	47
	Unit Rate (I/ha/d)	9064	9064	9064	9064	9064	9064
	Industrial Water Use (m3/d)	299	335	358	381	403	426
J.	Commercial Water Use						
	Commercial Area (ha)	30	35	37	39	.41	43
÷.,	Unit Rate (I/ha/d)	77951	77951	77951	77951	77951	77951
	Commercial Water Use (m3/d)	2,339	2,728	2,884	3,040	3,196	3,352
ς.	Institutional Water Use						
	Institutional Area (ha)	100	103	105	107	109	111
	Unit Rate (I/ha/d)	33426	33426	33426	33426	33426	33426
	Institutional Water Use (m3/d)	3,343	3,443	3,510	3,577	3.643	3,710
	Total Net Water Use (m3/d) (H+I+J+K)	16,505	18,727	20,169	21,686	23,372	25,144
	Water Loss						
	M1 Water Loss Ratio (%)	10.0	12.0	14.0	16.0	18.0	20.0
	M2 Water Loss (m3/d) (L/(100-M1)*M1)					~~~	
		1,834	2,554	3,283	4,131	5,130	6,286
1	Total Water Demand (m3/d) (L+M)						

Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption) District: GAMPAHA

Division BIYAGAMA P.S.

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		1995	2000	2005	2010	2015	2020
Ã.	Projected Population	132,100	142,900	154,050	165,200	180,300	195,400
	Total of Residential, Commercial, Industrial	and Institution				1	
	Land Use Area (ha) (Annex.F)	2,732	2,874	2,994	3,114	3,234	3,354
	Net Population Density (pop./ha)	48	50	51	53	56	58
8.		. 77	78	80	82	83	85
<u>C.</u>	Total Service Population (A*B/100)	101,277	111.938	123,240	134,913	150,250	166,090
D.	Direct Connection						
	D1 Percentage of Connected Population	(Projected)				1	
		60.0	60	60	60	60	60.0
	D2 Population (C*D1/100)	60,766	67,163	73,944	80,948	90,150	99,654
	D3 Unit Rate (l/cap/d)	126	133	139.5	146	154	16:
	D4 Water Use (m3/d) (D2*D3/1000)	7,657	8,933	10,315	11,818	13,883	16,14
Ē.	Community Tap						
.	E1 Percentage of Connected Population	8.3	6.7	5.0	3.3	1.7	0,0
	E2 Population (C*E1/100)	8,440	7,463	6,162	4,497	2,504	
	E3 Unit Rate (l/cap/d)	53	53	53	53	53	5
	E4 Water Use (m3/d) (E2*E3/1000)	447	396	327	238	133	-
F.	Yard Tap						
۳.	Fare Tap F1 Percentage of Connected Population	31.7	33.3	35.0	36.7	38.3	40.
		32,071	37,313	43,134	49,468	57,596	66,43
	F2 Population (C*F1/100)	32,071 75	75	43,134	45,400	75	7
	F3 Unit Rate (l/cap/d)			3,235	3,710	4,320	4.98
	F4 Water Use (m3/d) (F2*F3/1000)	2,405 100.0	2,798 100.0	100.0	100.0	100.0	100.
	al of Percentage (D4+E4+F4)	100.0	100.0	100.0			100.
н.	Total Domestic Water Use (D+E+F)	404 027		123,240	134,913	150,250	166,09
	H1 Total Connected Population	101,277	111,938			18,336	21,12
	H2 Total Domestic Water Use (m3/d)	10,509	12,127	13,877	15,767		21,12
I. II	ndustrial Water Use	000		100	610	565	62
	Industrial Area (ha)	325	400	455	510	9064	906
	Unit Rate (Vha/d)	9064	9064	9064	9064	5,121	5.62
	Industrial Water Use (m3/d)	2,946	3,626	4,124	4,623	5,121	5,62
J.	Commercial Water Use		i		10	50	5
	Commercial Area (ha)	40	44	47	49	52	7795
	Unit Rate (l/ha/d)	77951	77951	77951	77951	77951	
	Commercial Water Use (m3/d)	3,118	3,430	3,625	3,820	4,014	4,20
К.	Institutional Water Use						
	Institutional Area (ha)	27	30	33	35	38	4
	Unit Rate (Vha/d)	33426	33426	33426	33426	33426	3342
	Institutional Water Use (m3/d)	903	1,003	1,086	1,170	1,253	1,33
L	Total Net Water Use (m3/d) (H+I+J+K)	17,475	20,185	22,712	25,379	28,725	32,29
M.	Water Loss					1	
	M1 Water Loss Ratio (%)	10.0	12.0	14.0	16.0	18.0	20.
	M2 Water Loss (m3/d) (L/(100-M1)*M1)				· · · · •		
		1,942	2,752	3,697	4,834	6,305	8,07
N.	Total Water Demand (m3/d) (L+M)		· · · · · · · · · · · · ·				
		19,417	22,937	26,409	30,213	35,030	40,360

Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption) District: KALUTARA

Division BANDARAGAMA P.S.(PART)

-			YEAR	ana kao na kao kao mampika mangka kao mangka Nga kao mangka		T-4.14149-4-14-14-14-14	
		1995	2000	2005	2010	2015	2020
Ā.	Projected Population	62,400	72,400	82,350	92,300	102,400	112,500
	Total of Residential, Commercial, Industria	, and Institutio	nal	1.1.1.1		· · · ·	
	Land Use Area (ha) (Annex.F)	2,695	2,850	3,005	3,160	3,297	3,433
	Net Population Density (pop./ha)	23	25	27	- 29	31	33
В.		77	78	80	82	83	85
Ċ.		47,840	56,713	65,880	75,378	85,333	95,625
n.							
	D1 Percentage of Connected Population	(Projected)					
	-	60.0	60	· · 60	60	60	60.0
	D2 Population (C*D1/100)	28,704	34,028	39,528	45,227	51,200	57,375
	D3 Unit Rate (l/cap/d)	126	133	139.5	146	154	162
	D4 Water Use (m3/d) (D2*D3/1000)	3,617	4,526	5,514	6,603	7,885	9,295
Ē.	Community Tap					1.1	
	E1 Percentage of Connected Population	8.3	6.7	5.0	3.3	1.7	0.0
	E2 Population (C*E1/100)	3,987	3,781	3,294	2,513	1,422	0
	E3 Unit Rate (Vcap/d)	53	53	53	53	53	53
	E4 Water Use (m3/d) (E2*E3/1000)	211	200	175	133	75	Ö
F.	Yard Tap						
•••	F1 Percentage of Connected Population	31.7	33.3	35.0	36,7	38.3	40.0
	F2 Population (C*F1/100)	: 15,149	18,904	23,058	27,639	32,711	38,250
	F3 Unit Rate (Vcap/d)	75	75	. 75	75	75	75
	F4 Water Use (m3/d) (F2*F3/1000)	1,136	1,418	1,729	2,073	2,453	2,869
Tol	at of Percentage (D4+E4+F4)	100.0	100.0	100.0	100.0	100.0	100.0
Ĥ.	Total Domestic Water Use (D+E+F)					· · · ·	
	H1 Total Connected Population	47,840	56,713	65,880	75,378	85,333	95,625
	H2 Total Domestic Water Use (m3/d)	4,964	6,144	7,418	8,809	10,414	12,164
ī. Ti	ndustrial Water Use						-
	Industrial Area (ha)	200	240	280	320	360	400
	Unit Rate (I/ha/d)	9064	9064	9064	9064	9064	9064
	Industrial Water Use (m3/d)	1,813	2,175	2,538	2,900	3,263	3,626
J.	Commercial Water Use						
÷.	Commercial Area (ha)	190	200	210	220	230	240
	Unit Rate (l/ha/d)	10350	10350	10350	10350	10350	10350
	Commercial Water Use (m3/d)	1,967	2,070	2,174	2,277	2,381	2,484
K.	Institutional Water Use			· · ·			
	Institutional Area (ha)	145	160	175	190	205	220
	Unit Rate (l/ha/d)	10150	10150	10150	10150	10150	10150
	Institutional Water Use (m3/d)	1,472	1,624	1,776	1,929	2,081	2,233
Ĺ.	Total Net Water Use (m3/d) (H+I+J+K)	10,215	12,013	13,906	15,915	18,138	20,506
M.	Water Loss						
	M1 Water Loss Ratio (%)	10.0	12.0	14.0	16.0	18.0	20.0
	M2 Water Loss (m3/d) (L/(100-M1)*M1)				1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		
		1,135	1,638	2 264	3,031	3,981	5,127
N.	Total Water Demand (m3/d) (L+M)	_					
		11,350	13,651	16,169	18,947	22,119	25,633

Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption) District: COLOMBO Division HOMAGAMA P.S. (PART)

			YEAR				
		1995	2000	2005	2010	2015	2020
Ā	Projected Population	65,250	71,100	73,550	76,000	78,250	80,50
	Total of Residential, Commercial, Industria						
	Land Use Area (ha) (Annex.F)	985	1,192	1,315	1,438	1,480	1,52
	Net Population Density (pop./ha)	66	60	56	53	53	5
В.		77	78	80	82	83	8
Ċ.	Total Service Population (A*B/100)	50,025	55,695	58,840	62,067	65,208	68,42
D.		00,020					
v.	D1 Percentage of Connected Population	(Projected)					
	DT Percentage of Connected Population	60.0	60	60	60	60	60.
÷	D2 Banulation (CtD1/100)	30,015	33,417	35,304	37,240	39,125	41.05
	D2 Population (C*D1/100)	•	133	139.5	146	154	16
	D3 Unit Rate (l/cap/d)	126	4,444	4,925	5,437	6.025	6,65
	D4 Water Use (m3/d) (D2*D3/1000)	3,782	4,444	4,925	0,437	0,020	0,03
E.			67	5.0	3.3	1.7	0.
	E1 Percentage of Connected Population	8.3	6.7	2.942	2,069	1,087	0.
	E2 Population (C*E1/100)	4,169	3,713	2,942	2,009	53	5
	E3 Unit Rate (Vcap/d)	53	53		110	58	
	E4 Water Use (m3/d) (E2*E3/1000)	221	197	156	110		
F.		·		05.0	00.7	38.3	40
	F1 Percentage of Connected Population	31.7	33.3	35.0	36.7		27.37
	F2 Population (C*F1/100)	15,841	18,565	20,594	22,758	24,997	
	F3 Unit Rate (l/cap/d)	75	75	75	75	75	
	F4 Water Use (m3/d) (F2*F3/1000)	1,188	1,392	1,545	1,707	1,875	2.05
	tal of Percentage (D4+E4+F4)	100.0	100.0	100.0	100.0	100.0	100
H.	Total Domestic Water Use (D+E+F)					·	
	H1 Total Connected Population	50,025	55,695	58,840	62,067	65,208	68,42
	H2 Total Domestic Water Use (m3/d)	5,191	6,034	6,625	7,254	7,958	8,70
. Î	ndustrial Water Use						
	Industrial Area (ha)	100	153	209	265	283	30
	Unit Rate (l/ha/d)	9064	9064	9064	9064	9064	906
	Industrial Water Use (m3/d)	906	1,387	1,894	2,402	2,561	2,71
Ī.	Commercial Water Use		·····				
÷.	Commercial Area (ha)	19	23	26	28	30	3
	Unit Rate (l/ha/d)	77951	77951	77951	77951	77951	7795
	Commercial Water Use (m3/d)	1,481	1,793	1,988	2,183	2,339	2,49
ζ.							
Ν.	Institutional Area (ha)	245	255	270	284	287	29
	Unit Rate (I/ha/d)	33426	33426	33426	33426	33426	3342
	Institutional Water Use (m3/d)	8,189	8,524	9,008	9,493	9,593	9,69
		15,768	17,737	19,516	21,331	22,450	23,61
L	Total Net Water Use (m3/d) (H+I+J+K)	10,108	11,131		21,001	22,700	
м.	Water Loss	40.0	40.0	14.0	16.0	18.0	20
	M1 Water Loss Ratio (%)	10.0	12.0	14.0	10.0	10.0	20
	M2 Water Loss (m3/d) (L/(100-M1)*M1)			0 1 7 7	4 000	4,928	6.00
		1,752	2,419	3,177	4,063	4,928	5,90
N.	Total Water Demand (m3/d) (L+M)				05.001	07 070	20 64
		17,520	20,156	22,693	25,394	27,378	29,51

Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption) District: KALUTARA Division HORANA P.S.(PART)

			YEAR	2			·
		1995	2000	2005	2010	2015	2020
A,	Projected Population	27,800	33,900	39,950	46,000	51,300	56,600
	Total of Residential, Commercial, Industria	l, and Institutio	nal				
	Land Use Area (ha) (Annex.F)	1,571	1,650	1,729	1,808	1,869	1,929
	Net Population Density (pop./ha)	18	21	23	25	27	29
₿,	Service Ratio (%)	77	78	80	82	83	85
C.	Total Service Population (A*B/100)	21,313	26,555	31,960	37,567	42,750	48,110
D.	Direct Connection						
	D1 Percentage of Connected Population					· · ·	
		60.0	60	60	60	60	60.0
	D2 Population (C*D1/100)	12,788	15,933	19,176	22,540	25,650	28,866
	D3 Unit Rate (l/cap/d)	126	. 133	139.5	146	154	162
	D4 Water Use (m3/d) (D2*D3/1000)	1,611	2,119	2,675	3,291	3,950	4,676
Ē,	Community Tap						
	E1 Percentage of Connected Population	8.3	6.7	5.0	3.3	1.7	0.0
	E2 Population (C*E1/100)	1,776	1,770	1,598	1,252	712	0
	E3 Unit Rate (I/cap/d)	53	53	53	53	53	53
	E4 Water Use (m3/d) (E2*E3/1000)	94	94	85	66	38	0
F.	Yard Tap	· .					
	F1 Percentage of Connected Population	31.7	33.3	35.0	36.7	38.3	40.0
	F2 Population (C*F1/100)	6,749	8,852	11,186	13,774	16,388	19,244
	F3 Unit Rate (I/cap/d)	75	75	75	75	75	75
	F4 Water Use (m3/d) (F2*F3/1000)	506	664	839	1,033	1,229	1,443
Tot	al of Percentage (D4+E4+F4)	100.0	100.0	100.0	100.0	100.0	100.0
Ĥ.'	Total Domestic Water Use (D+E+F)				• }		
	H1 Total Connected Population	21,313	26,555	31,960	37,567	42,750	48,110
	H2 Total Domestic Water Use (m3/d)	2,212	2,877	3,599	4,390	5,217	6,120
I. Ir	dustrial Water Use				· · ·		
	Industrial Area (ha)	84	94	104	114	124	134
	Unit Rate (l/ha/d)	9064	9064	9064	9064	9064	9064
	Industrial Water Use (m3/d)	761	852	943	1,033	1,124	1,215
J.	Commercial Water Use	·· · · ·					
	Commercial Area (ha)	132	138	144	150	156	162
	Unit Rate (I/ha/d)	10350	10350	10350	10350	10350	10350
	Commercial Water Use (m3/d)	1,366	1,428	1,490	1,553	1,615	1,677
К.	Institutional Water Use						
	Institutional Area (ha)	110	118	126	134	142	150
	Unit Rate (l/ha/d)	10150	10150	10150	10150	10150	10150
	Institutional Water Use (m3/d)	1,117	1,198	1,279	1,360	1,441	1,523
	Total Net Water Use (m3/d) (H+I+J+K)	5,456	6,355	7,311	8,336	9,397	10,533
И.	Water Loss						
	M1 Water Loss Ratio (%)	10.0	12.0	14.0	16.0	18.0	20.0
	M2 Water Loss (m3/d) (L/(100-M1)*M1)						
		606	867	1,190	1,588	2,063	2,633
٧.	Total Water Demand (m3/d) (L+M)					-,009	
••		6,062	7,221	8,501	9,924	11,459	13,167

Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption) District: GAMPAHA Division JA-ELA P.S.

	n an air an ann an an ann an ann an ann an ann an a		YEAR				in daa ahaa ka
		1995	2000	2005	2010	2015	2020
A.	Projected Population	156,000	180,700	206,000	231,300	265,650	300,000
	Total of Residential, Commercial, Industria	, and Institutio	nal				
Į –	Land Use Area (ha) (Annex.F)	2,022	2,225	2,399	2,573	2,747	2,921
ļ –	Net Population Density (pop./ha)	77	81	86	90	97	103
Β.	Service Ratio (%)	77	78	80	82	83	85
Ċ.	Total Service Population (A*B/100)	119,600	141,548	164,800	188,895	221,375	255,000
D.	Direct Connection						
	D1 Percentage of Connected Population	(Projected)		1			
		60.0	60	60	60	60	60,0
	D2 Population (C*D1/100)	71,760	84,929	98,880	113,337	132,825	153,000
ļ.	D3 Unit Rate (Vcap/d)	126	133	139.5	146	154	162
	D4 Water Use (m3/d) (D2*D3/1000)	9,042	11,296	13,794	16,547	20,455	24,786
Ë.	Community Tap						
	E1 Percentage of Connected Population	8.3	6.7	5.0	3.3	1.7	0.0
	E2 Population (C*E1/100)	9,967	9,437	8,240	6,297	3,690	0
	E3 Unit Rate (l/cap/d)	53	53	53	53	53	53
	E4 Water Use (m3/d) (E2*E3/1000)	528	500	437	334	196	0
F.	Yard Tap			1			
	F1 Percentage of Connected Population	31.7	33.3	35.0	36.7	38.3	40.0
	F2 Population (C*F1/100)	37,873	47,183	57,680	69,262	84,860	102,000
	F3 Unit Rate (Vcap/d)	75	75	75	75	75	75
	F4 Water Use (m3/d) (F2*F3/1000)	2,841	3,539	4,326	5,195	6,365	7,650
Tot	al of Percentage (D4+E4+F4)	100.0	100.0	100,0	100.0	100.0	100.0
Η, ΄	Total Domestic Water Use (D+E+F)						
	H1 Total Connected Population	119,600	141,548	164,800	188,895	221,375	255,000
	H2 Total Domestic Water Use (m3/d)	12,410	15,334	18,556	22,076	27,015	32,436
I. Ir	ndustrial Water Use						
1	Industrial Area (ha)	250	300	325	350	375	400
•	Unit Rate (I/ha/d)	9064	9064	9064	9064	9064	9064
	Industrial Water Use (m3/d)	2 266	2,719	2,946	3,172	3,399	3,626
J.	Commercial Water Use						
	Commercial Area (ha)	48	50	53	55	58	60
	Unit Rate (I/ha/d)	77951	77951	77951	77951	77951	77951
	Commercial Water Use (m3/d)	3,742	3,898	4,092	4,287	4,482	4,677
K.	Institutional Water Use						
	Institutional Area (ha)	134	148	158	168	178	188
	Unit Rate (I/ha/d)	33426	33426	33426	33426	33426	33426
	Institutional Water Use (m3/d)	4,479	4,947	5,281	5,616	5,950	6,284
	Total Net Water Use (m3/d) (H+I+J+K)	22,897	26,898	30,876	35,151	40,846	47,023
<u>M.</u>	Water Loss						
	M1 Water Loss Ratio (%)	10.0	12.0	14.0	16.0	18.0	20.0
	M2 Water Loss (m3/d) (L/(100-M1)*M1)						
		2,544	3,668	5.026	6,695	8,966	11,756
N.	Total Water Demand (m3/d) (L+M)						
		25,441	30,566	35,902	41,846	49,812	58,778

Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption) District: GAMPAHA Division JA-ELA U.C.

			<u>YEAR</u>				0000
		1995	2000	2005	2010	2015	2020
Ā.	Projected Population	35,900	38,600	42,300	46,000	50,300	54,600
•••	Total of Residential, Commercial, Industria	and Institution	nal 👘				
	Land Use Area (ha) (Annex.F)	447	472	499	525	549	572
	Net Population Density (pop./ha)	80	82	85	88	92	95
B .	Service Ratio (%)	77	78	80	82	83	85
D.	Total Service Population (A*B/100)	27,523	30,237	33,840	37,567	41,917	46,410
<u>.</u>	Direct Connection						
D.		(Projected)	· · ·				
	D1 Percentage of Connected Population	60.0	60	60	03	60	.60.0
		16,514	18,142	20,304	22,540	25,150	27,848
	D2 Population (C*D1/100)		133	139.5	146	154	162
	D3 Unit Rate (I/cap/d)	126		2,832	3,291	3,873	4,51
	D4 Water Use (m3/d) (D2*D3/1000)	2,081	2,413	2,032	5,281		
Е.	Community Tap				·		0.0
	E1 Percentage of Connected Population	8.3	6.7	5.0	3.3	1,7	
	E2 Population (C*E1/100)	2,294	2,016	1,692	1,252	699	(
	E3 Unit Rate (l/cap/d)	53	53	53	53	53	5
	E4 Water Use (m3/d) (E2*E3/1000)	122	107	90	66	37	·
F.	Yard Tap				· ·		
	F1 Percentage of Connected Population	31.7	33.3	35.0	36.7	38.3	40,0
	F2 Population (C*F1/100)	8,716	10,079	11,844	13,774	16,068	18,56
	F3 Unit Rate (Vcap/d)	75	75	75	75	75	7
	F4 Water Use (m3/d) (F2*F3/1000)	654	756	888	1,033	1,205	1,393
Tot	al of Percentage (D4+E4+F4)	100.0	100,0	100.0	100.0	100.0	100.0
	Total Domestic Water Use (D+E+F)						
	H1 Total Connected Population	27,523	30,237	33,840	37,567	41 917	46,410
	H2 Total Domestic Water Use (m3/d)	2,856	3,276	3,810	4,390	5,115	5,90
		2,000	0,010				
I. II	ndustrial Water Use	18	22	25	28	31	3-
	Industrial Area (ha)	9064	9064	9064	9064	9064	906
	Unit Rate (I/ha/d)	9084 163	199	227	254	281	30
	Industrial Water Use (m3/d)	103	199				
J,	Commercial Water Use				14	16	17
	Commercial Area (ha)	9	11.	13	1	77951	7795
	Unit Rate (l/ha/d)	77951	77951	77951	77951		
	Commercial Water Use (m3/d)	702	857	974	1,091	1,208	1,32
К.	Institutional Water Use	1.5					
	Institutional Area (ha)	12	16	18	20	22	24
	Unit Rate (I/ha/d)	33426	33426	33426	33426	33426	3342
	Institutional Water Use (m3/d)	401	535	602	669	735	802
F	Total Net Water Use (m3/d) (H+I+J+K)	4,122	4,867	5,613	6,404	7,340	8,33
M	Water Loss		[
	M1 Water Loss Ratio (%)	10.0	12.0	14.0	16.0	18.0	20.0
	M2 Water Loss (m3/d) (L/(100-M1)*M1)					e en la la la	:
	MIS AAAGE LOSS (HIGH) (D/100-MI) MI)	458	664	914	1,220	1,611	2,08
	Total Matrice Demond (m2/d) (L+M)		0.04		,,		
N.	Total Water Demand (m3/d) (L+M)	4,580	5,531	6,527	7,624	8,951	10,424

Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption) District: GAMPAHA

Division KATANA P.S. (PART)

			YEAR				
		1995	2000	2005	2010	2015	2020
<u>.</u>	Projected Population	63,100	81,300	97,100	112,900	134,550	156,200
<i>n</i> .	Total of Residential, Commercial, Industrial			. 1	1		
	Land Use Area (ha) (Annex.F)	1,571	1,697	1,798	1,898	1,999	2,099
	Net Population Density (pop./ha)	40	48	54	59	67	74
B.	Service Ratio (%)	77	78	80	82	83	
č.	Total Service Population (A*B/100)	48,377	63,685	77,680	92,202	112,125	132,770
<u>D.</u>	Direct Connection					1	
	D1 Percentage of Connected Population	(Projected)				20	60.0
		60.0	60	60]	60	60	79.662
	D2 Population (C*D1/100)	29,026	38,211	46,608	55,321	67,275	
	D3 Unit Rate (l/cap/d)	126	133	139.5	146	154	162
	D4 Water Use (m3/d) (D2*D3/1000)	3,657	5,082	6,502	8,077	10,360	12,905
Ē.	Community Tap						0.0
-	E1 Percentage of Connected Population	8.3	6.7	5.0	3.3	1.7	0.0
	E2 Population (C*E1/100)	4,031	4,246	3,884	3,073	1,869	-
	E3 Unit Rate (Vcap/d)	53	53	53	53	53	53
	E4 Water Use (m3/d) (E2*E3/1000)	214	225	206	163	99	
F.	Yard Tap			1			40.0
•••	F1 Percentage of Connected Population	31.7	33.3	35.0	36.7	38.3	
	F2 Population (C*F1/100)	15,319	21,228	27,188	33,807	42,981	53,108
	F3 Unit Rate (l/cap/d)	75	75	75	75	75	75
	F4 Water Use (m3/d) (F2*F3/1000)	1,149	1,592	2,039	2,536	3,224	3,983
Tol	al of Percentage (D4+E4+F4)	100.0	100.0	100.0	100.0	100.0	100.0
Ĥ	Total Domestic Water Use (D+E+F)						400 770
	H1 Total Connected Population	48,377	63,685	77,680	92,202	112,125	132,770
	H2 Total Domestic Water Use (m3/d)	5,020	6,899	8,747	10,775	13,683	16,888
î li	ndustrial Water Use						
	Industrial Area (ha)	87	93	98	103	.108	113
	Unit Rate (Vha/d)	9064	9064	9064	9064	9064	9064
	Industrial Water Use (m3/d)	789	843	888	934	979	1,024
J.	Commercial Water Use				•		
ř.	Commercial Area (ha)	186	196	201	206	211	- 210
	Unit Rate (I/ha/d)	77951	77951	77951	77951	77951	7795
	Commercial Water Use (m3/d)	14,499	15,278	15,668	16,058	16,448	16,83
ĸ.	Institutional Water Use	1				400	4.74
ľ. "	Institutional Area (ha)	98	1	113	118	123	128 33420
	Unit Rate (l/ha/d)	33426		33426	33426	33426	
	Institutional Water Use (m3/d)	3,276	3,610	3,777	3,944	4,111	4,279
L.	Total Net Water Use (m3/d) (H+I+J+K)	23,583	26,631	29,080	31,711	35,221	39,02
M.				1			00.4
	M1 Water Loss Ratio (%)	10.0	12.0	14.0	16.0	18.0	20.0
	M2 Water Loss (m3/d) (L/(100-M1)*M1)	1		1			a #6
		2,620	3,631	4,734	6,040	7,731	9,75
N.	Total Water Demand (m3/d) (L+M)						40 70
ť"	,	26,203	30,262	33,814	37,751	42,952	48,786

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Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption) District: COLOMBO Division KESBEWA P.S.

			YEAR	iensameikiseelide of Aldeo Ber	.	ar dinaka kada keta mané an m	
	the state of the second second	1995	2000	2005	2010	2015	2020
A.	Projected Population	191,300	217,900	248,450	279,000	309,550	340,100
. •	Total of Residential, Commercial, Industria	, and Institution	nal				
	Land Use Area (ha) (Annex.F)	2,639	2,852	3,065	3,278	3,491	3,704
	Net Population Density (pop./ha)	72	76	81	85	89	92
8.	Service Ratio (%)	77	78	80	82	83	85
Ċ,	Total Service Population (A*B/100)	146,663	170,688	198,760	227,850	257,958	289,085
Ď,	Direct Connection						
	D1 Percentage of Connected Population	r , , ,					
		60.0	60	60	60	60	60.0
	D2 Population (C*D1/100)	87,998	102,413	119,256	136,710	154,775	173,451
	D3 Unit Rate (l/cap/d)	126	133	139.5	146	154	162
	D4 Water Use (m3/d) (D2*D3/1000)	11,088	13,621	16,636	19,960	23,835	28,099
É.	Community Tap					· ·	
	E1 Percentage of Connected Population	8.3	6.7	5.0	3.3	1.7	0.0
	E2 Population (C*E1/100)	12,222	11,379	9,938	7,595	4,299	0
	E3 Unit Rate (Vcap/d)	53	53	53	53	53	53
	E4 Water Use (m3/d) (E2*E3/1000)	648	603	527	403	228	0
F.	Yard Tap			.			
	F1 Percentage of Connected Population	31.7	33.3	35.0	36.7	38,3	40.0
	F2 Population (C*F1/100)	46,443	56,896	69,566	83,545	98,884	115,634
	F3 Unit Rate (I/cap/d)	75	75	75	75	75	75
	F4 Water Use (m3/d) (F2*F3/1000)	3,483	4,267	5,217	6,266	7,416	8,673
	al of Percentage (D4+E4+F4)	100.0	100.0	100.0	100.0	100.0	100.0
4. 7	otal Domestic Water Use (D+E+F)						
	H1 Total Connected Population	146,663	170,688	198,760	227,850	257,958	289,085
	H2 Total Domestic Water Use (m3/d)	15,219	18,491	22,380	26,628	31,480	36,772
. In	dustrial Water Use						
	Industrial Area (ha)	260	344	428	512	596	680
	Unit Rate (I/ha/d)	9064	9064	9064	9064	9064	9064
	Industrial Water Use (m3/d)	2,357	3,118	3,879	4,641	5,402	6,164
١,	Commercial Water Use					1. A	
·	Commercial Area (ha)	45	62	79	96	113	130
	Unit Rate (l/ha/d)	77951	77951	77951	77951	77951	77951
	Commercial Water Use (m3/d)	3,508	4,833	6,158	7,483	8,808	10,134
C.	Institutional Water Use						
	Institutional Area (ha)	84	94	104	114	124	134
	Unit Rate (I/ha/d)	33426	33426	33426	33426	33426	33426
	Institutional Water Use (m3/d)	2,808	3,142	3,476	3,811	4,145	4,479
	Total Net Water Use (m3/d) (H+I+J+K)	23,891	29,584	35,894	42,563	49,835	57,548
A.	Water Loss						
	M1 Water Loss Ratio (%)	10.0	12.0	14.0	16.0	18.0	20.0
	M2 Water Loss (m3/d) (L/(100-M1)*M1)		· · · ·				
		2,655	4,034	5,843	8,107	10,939	14,387
Ι.	Total Water Demand (m3/d) (L+M)						
		26,546	33,618	41,737	50,670	60,774	71,935

Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption) District: GAMPAHA Division MAHARA P.S.(PART)

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		1995	2000	2005	2010	2015	2020
Ă.	Projected Population	113,900	125,600	137,200	148,800	164,450	180,100
	Total of Residential, Commercial, Industrial	, and Institutio	nal		ł		
	Land Use Area (ha) (Annex.F)	2,210	2,340	2,451	2,561	2,672	2,782
	Net Population Density (pop./ha)	52	54	56	58	62	65
<u>B.</u>	Service Ratio (%)	77	78	80	82	83	85
C.	Total Service Population (A*B/100)	87,323	98,387	109,760	121,520	137,042	153,085
D.	Direct Connection			-	1		
	D1 Percentage of Connected Population	(Projected)			l		
	- · ·	60.0	60	60	60	60	60.0
	D2 Population (C*D1/100)	52,394	59,032	65,856	72,912	82,225	91,851
	D3 Unit Rate (I/cap/d)	126	133	139.5	146	154	162
	D4 Water Use (m3/d) (D2*D3/1000)	6,602	7,851	9,187	10,645	12,663	14,880
Ē.	Community Tap						
	E1 Percentage of Connected Population	8.3	6.7	5.0	3.3	1.7	0.0
	E2 Population (C*E1/100)	7,277	6,559	5,488	4,051	2,284	0
	E3 Unit Rate (l/cap/d)	53	53	53	53	53	53
	E4 Water Use (m3/d) (E2*E3/1000)	386	348	291	215	121	0
F.	Yard Tap						
	F1 Percentage of Connected Population	31.7	33.3	35.0	36.7	38.3	40.0
	F2 Population (C*F1/100)	27,652	32,796	38,416	44,557	52,533	61,234
	F3 Unit Rate (l/cap/d)	. 75	75	75	75	75	75
	F4 Water Use (m3/d) (F2*F3/1000)	2,074	2,460	2,881	3,342	3,940	4,593
Tot	al of Percentage (D4+E4+F4)	100.0	100.0	100.0	100.0	100.0	100.0
Ĥ.	Total Domestic Water Use (D+E+F)						
	H1 Total Connected Population	87,323	98,387	109,760	121,520	137,042	153,085
	H2 Total Domestic Water Use (m3/d)	9,061	10,659	12,359	14,202	16,724	19,472
l. Ir	dustrial Water Use						
	Industrial Area (ha)	220	260	295	330	365	400
	Unit Rate (I/ha/d)	9064	9064	9064	9064	9064	9064
	Industrial Water Use (m3/d)	1,994	2,357	2.674	2,991	3,308	3,626
J.	Commercial Water Use						
	Commercial Area (ha)	90	95	101	106	112	117
	Unit Rate (l/ha/d)	77951	77951	77951	77951	77951	77951
	Commercial Water Use (m3/d)	7,016	7,405	7,834	8,263	8,692	9,120
<u>к.</u>	Institutional Water Use			-			
••	Institutional Area (ha)	90	110	118	125	133	140
	Unit Rate (l/ha/d)	33426	33426	33426	33426	33426	33426
	Institutional Water Use (m3/d)	3,008	3,677	3,928	4,178	4,429	4,680
 	Total Net Water Use (m3/d) (H+I+J+K)	21,079	24,097	26,794	29.634	33,152	36,898
M.	Water Loss						
	M1 Water Loss Ratio (%)	10.0	12.0	14.0	16.0	18.0	20.0
	M2 Water Loss (m3/d) (L/(100-M1)*M1)	.0.0					
	MA 1100 (1000 (1100 (100 MIT) MIT)	2,342	3,286	4,362	5,645	7,277	9,224
	Total Water Demand (m3/d) (L+M)	2,042	0,200	-7,002	0,040		-,,
Ni.	total water Demano (moru) (L+M)	23,421	27,383	31,156	35,278	40,430	46,122

Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption) District: KALUTARA Division PANADURA P.S. (PART)

	YEAR								
1		1995	2000	2005	2010	2015	2020		
Ā.		109,800	112,400	115,000	117,600	120,800	124,000		
	Total of Residential, Commercial, Industrial	, and Institution	nal						
1	Land Use Area (ha) (Annex.F)	1,571	1,597	1,622	1,647	1,672	1,697		
ŀ	Net Population Density (pop./ha)	70	70	71	- 71	72	73		
B.	Service Ratio (%)	77	78	80	82	83	85		
C.	Total Service Population (A*B/100)	84,180	88,047	92,000	96,040	100,667	105,400		
D.	Direct Connection	14		1		· · · · ·			
	D1 Percentage of Connected Population								
		60.0	60	60	60	60	60.0		
	D2 Population (C*D1/100)	50,508	52,828	55,200	57,624	60,400	63,240		
	D3 Unit Rate (L/cap/d)	126	133	139.5	146	154	162		
	D4 Water Use (m3/d) (D2*D3/1000)	6,364	7,026	7,700	8,413	9,302	10,245		
E.	Community Tap								
	E1 Percentage of Connected Population	8.3	6.7	. 5.0	3.3	1.7	0.0		
	E2 Population (C*E1/100)	7,015	5,870	4,600	3,201	1,678	0		
	E3 Unit Rate (I/cap/d)	53	53	53	53	53	53		
	E4 Water Use (m3/d) (E2*E3/1000)	372	311	244	170	89	0		
F.							10.0		
	F1 Percentage of Connected Population	31.7	33.3	35.0	36.7	38.3	40.0		
	F2 Population (C*F1/100)	26,657	29,349	32,200	35,215	38,589	42,160		
	F3 Unit Rate (I/cap/d)	. 75	75	75	75	75	75		
	F4 Water Use (m3/d) (F2*F3/1000)	1,999	2,201	2,415	2,641	2,894	3,162		
	al of Percentage (D4+E4+F4)	100.0	100.0	100.0	100.0	100.0	100.0		
Η.	Total Domestic Water Use (D+E+F)								
	H1 Total Connected Population	84,180	88,047	92,000	96,040	100,667	105,400		
	H2 Total Domestic Water Use (m3/d)	8,735	9,538	10,359	11,224	12,285	13,407		
1. 1	ndustrial Water Use								
	Industrial Area (ha)	28	30	31	31	32	32		
	Unit Rate (l/ha/d)	9064	9064	9064	9064	9064	9064		
·	Industrial Water Use (m3/d)	254	272	276	281	285	290		
J.	Commercial Water Use								
	Commercial Area (ha)	38	39	40	40	41 77951	41 77951		
	Unit Rate (l/ha/d)	77951	77951	77951	77951		3,196		
	Commercial Water Use (m3/d)	2,962	3,040	3,079	3,118	3,157	3,190		
К.					6.7				
	Institutional Area (ha)	36	36	37	37	38 33426	38 33426		
	Unit Rale (I/ha/d)	33426	33426	33426	33426				
	Institutional Water Use (m3/d)	1,203	1,203	1,220	1,237	1,253	1,270		
L,	Total Net Water Use (m3/d) (H+I+J+K)	13,154	14,054	14,935	15,860	16,981	18,163		
м.	Water Loss				100	40.0	00.0		
	M1 Water Loss Ratio (%)	10,0	12.0	14.0	16.0	18.0	20.0		
	M2 Water Loss (m3/d) (L/(100-M1)*M1)			أنفده			4		
		1,462	1,916	2,431	3,021	3,727	4,541		
N.	Total Water Demand (m3/d) (L+M)	14 610	15 070	17 266	10 901	20 709	22 704		
		14,616	15,970	17,366	18,881	20,708	22,704		

Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption) District: GAMPAHA

Division SEEDUWA KATUNAYAKE U.C.

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		1995	2000	2005	2010	2015	2020
Ā.	Projected Population	44,000	45,800	48,050	50,300	50,750	51,200
	Total of Residential, Commercial, Industria	and Institutio	nal				
	Land Use Area (ha) (Annex.F)	656	670	684	698	713	727
	Net Population Density (pop./ha)	67	68	70	72	71	70
B.	Service Ratio (%)	77	78	80	82	83	85
C.	Total Service Population (A*B/100)	33,733	35,877	38,440	41,078	42,292	43,520
D.	Direct Connection					-	
	D1 Percentage of Connected Population	(Projected)					
		60.0	60	60	60	60	60.0
	D2 Population (C*D1/100)	20,240	21,526	23,064	24,647	25,375	26,112
	D3 Unit Rate (i/cap/d)	126	133	· 139.5	146	154	162
	D4 Water Use (m3/d) (D2*D3/1000)	2,550	2,863	3,217	3,598	3,908	4,230
E.	Community Tap						
	E1 Percentage of Connected Population	8.3	6.7	5.0	3.3	1.7	0.0
	E2 Population (C*E1/100)	2,811	2,392	1,922	1,369	705	(
	E3 Unit Rate (Vcap/d)	53	53	53	53	53	53
	E4 Water Use (m3/d) (E2*E3/1000)	149	127	102	73	37	(
F.	Yard Tap				1	1	
	F1 Percentage of Connected Population	31.7	33.3	35.0	36.7	38.3	40.0
	F2 Population (C'F1/100)	10,682	11,959	13,454	15,062	16,212	17,408
	F3 Unit Rate (l/cap/d)	75	75	75	75	75	75
	F4 Water Use (m3/d) (F2*F3/1000)	801	897	1,009	1,130	1,216	1,306
Tol	al of Percentage (D4+E4+F4)	100.0	100.0	100.0	100.0	100.0	100.0
	Total Domestic Water Use (D+E+F)			T	ļ	•	
• • •	H1 Total Connected Population	33,733	35,877	38,440	41,078	42,292	43,520
	H2 Total Domestic Water Use (m3/d)	3,500	3,887	4,328	4,801	5,161	5,536
i te	ndustrial Water Use		·································				
	Industrial Area (ha)	31	31	32	33	33	34
	Unit Rate (I/ha/d)	9064	9064	9064	9064	9064	9064
	Industrial Water Use (m3/d)	278	284	290	296	302	- 308
<u>J.</u>	Commercial Water Use						
•.	Commercial Area (ha)	12	13	13	13	13	14
	Unit Rate (I/ha/d)	77951	77951	77951	77951	77951	77951
	Commercial Water Use (m3/d)	956	977	997	1,018	1,038	1,059
K.	Institutional Water Use						
•••	Institutional Area (ha)	30	30	31	32	32	33
	Unit Rate (l/ha/d)	33426	33426	33426	33426	33426	33426
	Institutional Water Use (m3/d)	991	1,012	1.033	1,055	1,076	1,097
	Total Net Water Use (m3/d) (H+I+J+K)	5,725	6,159	6,648	7,169	7,577	7,999
<u>м.</u>	Water Loss						
	M1 Water Loss Ratio (%)	10.0	.12.0	14.0	16.0	18.0	20.0
	M2 Water Loss (m3/d) (L/(100-M1)*M1)	.5.0					
	The states reaction of the will will	636	840	1,082	1,365	1,663	2,000
N.	Total Water Demand (m3/d) (L+M)						
ГЧ	total trates bottone (more) (c.m)	6,361	6,999	7,731	8,534	9,240	9,999

Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption) District: GAMPAHA

Division SITHAWAKA P.S. (PADUKKA TOWN)

	YEAR								
		1995	2000	2005	2010	2015	2020		
ñ.	Projected Population	7,100	9,000	9,550	10,100	11,500	12,900		
	Total of Residential, Commercial, Industria	, and Institutio	nal						
	Land Use Area (ha) (Annex F)	. 121	131	141	150	148	146		
	Net Population Density (pop./ha)	59	69	68	67	78	88		
B.	Service Ratio (%)	77	78	80	82	83	85		
C.	Total Service Population (A*B/100)	5,443	7,050	7,640	8,248	9,583	10,965		
D.	Direct Connection					1			
	D1 Percentage of Connected Population	(Projected)							
		60.0	60	60	- 60	60	60.0		
	D2 Population (C*D1/100)	3,266	4,230	4,584	4,949	5,750	6,579		
	D3 Unit Rate (l/cap/d)	126	133	139.5	146	154	162		
	D4 Water Use (m3/d) (D2*D3/1000)	412	563	639	723	886	1,066		
Ē.	Community Tap								
L	E1 Percentage of Connected Population	8.3	6.7	5.0	3,3	1.7	0.0		
	E2 Population (C*E1/100)	454	470	382	275	160	0.0		
	E3 Unit Rate (l/cap/d)	53	53	53	53	53	53		
	E4 Water Use (m3/d) (E2*E3/1000)	24	25	20	15	8	õ		
F.	Yard Tap	24		20			<u>v</u>		
۴.		31.7	33,3	35.0	36.7	38.3	40.0		
					3,024	3,674	4.386		
	F2 Population (C*F1/100)	1,724	2,350	2,674			· · ·		
	F3 Unit Rate (l/cap/d)	75	75	75	75	75	75		
<u>.</u>	F4 Water Use (m3/d) (F2*F3/1000)	129	176	201	227	276	329		
	al of Percentage (D4+E4+F4)	100.0	100.0	100.0	100.0	100.0	100.0		
н.	Total Domestic Water Use (D+E+F)			~ ~			10.005		
	H1 Total Connected Population	5,443	7,050	7,640	8,248	9,583	10,965		
	H2 Total Domestic Water Use (m3/d)	565	764	860	964	1,169	1,395		
i, h	ndustrial Water Use		_		_1		_		
	Industrial Area (ha)	4	5	6	7	8	9		
	Unit Rate (I/ha/d)	9064	9064	9064	9064	9064	9064		
	Industrial Water Use (m3/d)	36	45	- 54	63	73	82		
J.	Commercial Water Use								
	Commercial Area (ha)	6	7	8	9	10	11		
	Unit Rate (I/ha/d)	77951	77951	77951	77951	77951	77951		
	Commercial Water Use (m3/d)	468	546	624	702	780	857		
ĸ	Institutional Water Use								
	Institutional Area (ha)	3	4	5	6	7	8		
	Unit Rate (I/ha/d)	33426	33426	33426	33426	33426	33426		
	Institutional Water Use (m3/d)	100	134	167	201	234	267		
L.	Total Net Water Use (m3/d) (H+I+J+K)	1,169	1,488	1,705	1,930	2,255	2,601		
M.		•					······		
	M1 Water Loss Ratio (%)	10.0	12.0	14.0	16.0	18.0	20.0		
	M2 Water Loss (m3/d) (L/(100-M1)*M1)								
	the trace coordinary (et too with with	130	203	278	368	495	650		
Ń.	Total Water Demand (m3/d) (L+M)		200	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~					
۷.	Total Avalet Demand (more) (L+M)	1,299	1 601	1 092	2 207	2,751	3,251		
	j	1,299	1,691	1,983	2,297	2,751	3,201		

Projected Full Development Water Demand (Revised in Commercial/Institutional Unit Consumption) District: GAMPAHA

Division WATTALA P.S.

	ļ		EAR	0005	2010	2015	2020
		1995	2000	2005	2010		
Ą,	Projected Population	139,100	159,900	182,150	204,400	213,750	223,10
	Total of Residential, Commercial, Industria	, and Institution	าอ			0.000	2.0
	Land Use Area (ha) (Annex.F)	1,729	1,883	2,023	2,163	2,203	2,24
	Net Population Density (pop./ha)	80	85	90	94	97	
B.	Service Ratio (%)	77	78	80	82	83	
С.	Total Service Population (A*B/100)	106,643	125,255	145,720	166,927	178,125	189,6
D,	Direct Connection			1	1		
	D1 Percentage of Connected Population	(Projected)					
	-	60.0	60	60	60	60	60
	D2 Population (C*D1/100)	63,986	75,153	87,432	100,156	106,875	113,7
	D3 Unit Rate (l/cap/d)	126	133	139.5	146	154	1
	D4 Water Use (m3/d) (D2*D3/1000)	8,062	9,995	12,197	14,623	16,459	18,4
Ē.	Community Tap	······					
_ .	E1 Percentage of Connected Population	8.3	6.7	5.0	3.3	1.7	
	E2 Population (C*E1/100)	8,887	8,350	7,286	5,564	2,969	
	E3 Unit Rate (l/cap/d)	53	53	53	53	53	
	E4 Water Use (m3/d) (E2*E3/1000)	471	443	386	295	157	
F.	Yard Tap						
۳.	F1 Percentage of Connected Population	31.7	33.3	35.0	36.7	38.3	4
	F2 Population (C*F1/100)	33,770	41,752	51.002	61,206	68,281	75,8
	F3 Unit Rate (I/cap/d)	75	75	75	75	75	
	F4 Water Use (m3/d) (F2*F3/1000)	2,533	3,131	3,825	4.590	5,121	5.6
T-1	al of Percentage (D4+E4+F4)	100.0	100.0	100.0	100.0	100.0	10
10	Total Domestic Water Use (D+E+F)	100.01	100.0				
н.		106,643	125,255	145,720	166,927	178,125	189,6
		11,066	13,569	16,408	19,508	21,737	24,1
		11,000	13,303	10,400			
I. II	ndustrial Water Use	60	90	105	120	135	1
	Industrial Area (ha)	9064	9064	9064	9064	9064	90
	Unit Rate (I/ha/d)			9004	1,088	1,224	1,3
	Industrial Water Use (m3/d)	544	816	932	1,000	1,624	
J.	Commercial Water Use					EA	
	Commercial Area (ha)	42	45	47	49	51 77951	779
	Unit Rate (I/ha/d)	77951	77951	77951	77951		
_	Commercial Water Use (m3/d)	3,274	3,508	3,664	3,820	3,976	4,1
Ř.	Institutional Water Use	•			ابم	0.7	
	Institutional Area (ha)	12	18	21	24	27	
	Unit Rate (Vha/d)	33426	33426	33426	33426	33426	334
	Institutional Water Use (m3/d)	401	602	702	802	903	1,0
Ĺ.,	Total Net Water Use (m3/d) (H+I+J+K)	15,285	18,495	21,725	25,218	27,839	30,6
М.	Water Loss						
÷	M1 Water Loss Ratio (%)	10.0	12.0	14.0	16.0	18.0	2
	M2 Water Loss (m3/d) (L/(100-M1)*M1)					1	
		1,698	2,522	3,537	4,803	6,111	7,6
N.	Total Water Demand (m3/d) (L+M)						
•••		16,983	21,016	25,262	30,021	33,950	38,2

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CHAPTER4Ref. No.4.2Subject :Water Demand ProjectionTitle :Projection of Served PopulationContents :Allocation of Served Population to GS Level

Total Population Allocation New Service Area (Served Population - Development with Kalu G nga)

Service Area Category	Division	Node No.	0001	1007		Served Population	ation			1	
			022	038L	Z000	6002	2010	2015	2020	2025	2030
Towns East Area	Kaduwela	281	0	o	8,145	18,506	28,783	41,768	54,483	67,032	75,925
	Panagoda	402	0	0	0	0	0	0	0	0	
	Pannipitiya	411	0	0	5.410	10.744	14.950	18.498	21 542	22,606	23.4
	Madiwela/Kotte	528	0	10.536	12,449	13 832	15 079	16 224	17 338	17 482	
	Madiwela/Kotte	529	0	24,530	29.076	32 385	35,359	38 108	202°'''	41 083	2.4
	Maharagama	552	0	0	14.624	29.043	40 411	50.034	58,306	54 185	53 344
	Batta, (High Zone)	563	0	0	19,176	43.570	67.766	02.00	116.876	122 647	126.076
	Batta (Low Zone)	568	c	· c	2 876	5 2 2 2 2 2 2 2 2 2 2 2 2	10 185	10 11	17 521	18,207	10,046
	Batta/Remote Zone	574		0	1 325	2633	3 663	190'S	100°11	14.270	2.4
	Total Towns East			35 ARG	02 081	167 540	240 475	770 007	000.1000	000 100	
Towns South Area	Homacama	408			2 210	047,101	210,110	100'017	7// 000	200,400	
	Panadura (Keselwatta)	905		b	104	200°0	041.8	000 t-	200.05	20,112	- C - U
	Mochours (Noodiwalia)			5 0	000	100 UN			1000.01	00+70	
	Aespewa (EXIS. Manaragama)	A-870		э (4,604	16,084	20,4/5	36,932	45,667	50,146	52,0
-	Kespewa (Filiyandala)	242	0	D	7,507	26,226	43,169	58,408	91,388	106,974	117,7
	Kesbewa (from Kalatuwawa)	552	0	o	2,813	9,828	16,178	22,567	28,516	30,642	31.8
	Panadura P.S.	494	0	2,318	2,425	2,534	2,645	7,714	11,525	14,285	16,6
	Total Towns South		0	2,318	27,559	82,635	129,631	191,157	245,114	280,626	304 584
Towns North Area	Wattala South	122	0	0	3.926	35,980	60,178	77.286	91.524	102.341	108.2
	Mahara South	132	0	0	0		0	2,073	3,860	10.993	16.006
	Mahara North	141	0	0	933	7.287	12.217	17.417	21.779	40.269	519
	Racama	145	0	c	1.507	17.549	28 161	35 360	43.447	46.167	48.878
	Weficara Kandana	15.6		o c	2 607	20 102	47.484	59,000	12 12 12 12 12 12 12 12 12 12 12 12 12 1	101-01-	70,010
		297		o c	0 F 4 0	26,123	401 CX	50 210 51 210	102,80	70,000	
0	Motolo Noth			o 0	01017	00000	14, 140		01100		
		8	.	э і	R71	0,045	14,213		SL/17	29,897	35,155
		00		э ·	0	0	D	2,425	4,786	16,684	24.9
	Katunayake EPZ	0/1	0	0	o ·	0	0	0	0	0	
	Katunayake U.C. North	174	0	0	o	0	0	0	0	425	209
	Katana P.S. (north)	183	0	0	0	0	0	0	0	12,962	21,604
	Total Towns North		0	0	12,212	125,087	204,099	264,201	322,666	410,335	470,228
Biyagama	Biyagama (incl. EPZ)	127	6,000	6,309	6,973	7,678	8,405	9,360	10,347	10,347	10,347
		121	0	0	15,924	29,220	41,583	56,243	69,755	74,561	77.5
		132		0	3,072	5,636	8,021	13,938	19,146	24,046	27,6
	Total Biyagama		6,000	6,309	25,969	42,534	58,010	79,541	99,248	108,954	115.5
Area Far South	Sitawaka (Padukka Town)	428	0	0	0	1	0	1,437	2,741	3,618	4,386
	Bandaragama P.S. (West)	494	0	0	0	0	0	3,641	6,800	12.745	17.1
	Bandaragama P.S. (East)	497	0	0	0	2,908	5,546	9.021	12,626	15.923	17,837
	Horana P.S	1000	0	0	0	0	0		0	7.217	12.0
	Total of Area Far South		0	0	0	2,908	5,546	14.099	22.167	39,503	51,413
Total of New Area			6,000	43,694	158,822	410.412	613,461	827,885	1,027,967	1,204,219	1,325,8
Total Served Doculat	istal Secret Boardation of Evistica Acco		1 271 174	1 601 606	017 170 1	00000				1010 000	
					n + 1 + 0,1	1,030,308	1,131,302	1.02,207,1	1,783,205	cha, 1 10, 1	1,032,030
				000 000 1							

Population Allocation (Existing Service Area) Existing Service Area (Served Population - Development with Kalu Ganga)

Progress Percentage to Full Development Demand

Area	1990	1995	2000	2005	2010	2015	2020	2025	2030
Colombo M.C.	206	100	6 8	<u>1</u> 00	<u>6</u>	100	5 8	100	12
Dehiwela-Mt.Lavinia M.	×06	100	<u>8</u>	00 100	100	<u>6</u>	<u>5</u>	10 10	100
Kotte U.C.	ò	100	100	6	9 <u>1</u> 0	5	10 10	100	001
Kolonnawa U.C.	š	0 0	100	100	5 5	<u>6</u>	<u>6</u>	100	õ
Moratuwa U.C.	72	81	35	87	8	8	8	3 5	õ
Kotti/Mulleriyawa P.S.	35	60	75	6	3 5	95 25	33	<u>6</u>	õ
Peliyagoda U.C.	45	60	20	30	85	88	66	95 95	õ
Wattala Mabole U.C.	4	60	5	80	85	88 88	06	99 90	ţ,
Kelaniya P.S.	45	60	2	80	85	88	6	36	001
Panadura U.C.	×06	100	1 00	100	100	<u>10</u>	<u>10</u>	100	õ
Horana U.C.	ŝ	75	82	86 86	88	6	8	6	თ

	Service Area				Full Development F	opulation				
		1990	1995	2000	2005	2010	2015	2020	2025	2030
	1 Colombo M.C.	729,491	746,757	760,000	765,350	770,700	773,550	776,400	776.400	776 400
	2 Dehiwela-Mt.Lavinia M.C.	204,172	224,441	242,400	243,000	243,600	243,750	243,900	243,900	243,900
	3 Kotte U.C.	106,590	131,483	141,400	146,700	152,000	156,450	160,900	160,900	160,900
	4 Kolonnawa U.C.	51,183	55,720	59,600	59,800	60,000	60,050	60,100	60,100	60,100
	5 Moratuwa U.C.	131,560	160,953	191,100	193,300	195,500	199,200	202,900	202,900	202,900
	6 Kotti/Mulleriyawa P.S.	30,158	61,908	98,500	101,500	104,500	107,400	110,300	110,300	110,300
	7 Peliyagoda U.C.	15,000	26,208	36,800	36,900	37,000	37,150	37,300	37,300	37,300
	8 Wattala Mabole U.C.	11,000	19,563	28,900	29,450	30,000	30,800	31,600	31,600	31,600
	9 Kelaniya P.S.	49,000	87,650	132,300	140,700	149,100	151,500	153,900	153,900	153,900
	10 Panadura U.C.	36,000	37,000	38,600	38,600	38,600	38,950	39,300	39,300	39,300
	11 Horana U.C.	7.020	9,983	13,200	14,300	15,400	16,750	18,100	18,100	18,100
Grand Total		1,371,174	1 561 666	1,742,800	1.769.600	1.796.400	1 815 550	1 834 700	1 834 700	1 834 700

	Service Area			:	Served Popl	ulation				
		1990	1995	2000	2005		2015	2020	2025	2030
+	1 Colombo M.C.	729,491	746,757	760,000	765,350.		773,550	775,800	775,400	776,400
2	Dehiwela-Mt.Lavinia M.C.	204,172	224,441	242,400	243,000		243,750	243,900	243,900	243,900
ო	Kotte U.C.	106,590	131,483	141,400	146,700		156,450	160,900	160,900	160,900
4	Kolonnawa U.C.	51,183	55,720	59,600	59,800	80,000	60,050	60,100	60,100	60,100
ഗ	Moratuwa U.C.	131,560	160,953	162,435	168,171		179,280	182,610	152,755	202,900
ഗ	Kotti/Mulleriyawa P.S.	30,158	61,908	76,629	91,350		102,030	104,785	110,300	110,300
∽	Peliyagoda U.C.	15,000	26,208	27,864	29,520		32,692	33,570	35,435	37,300
ŝ	Wattala Mabole U.C.	11,000	19,563	21 562	23,560		27,104	28,440	30,020	31,600
თ	Kelaniya P.S.	49,000	87,650	100,105	112,560		133,320	137,510	146 205	153,900
õ	Panaoura U.C.	36,000	37,000	38,600	38,600		38,950	39,300	39,300	39,300
t	Horana U.C.	7,020	9,983	10,824	12,298		15,075	16,290	16,290	16,29(
	Total	1 371 174	1 561 666	1 641 419	1 600 000	ŀ	1 762 251	1 723 205	1 811 805	1 820 201

Population Allocation from PS Level to GS Division Level (1) New Service Area (Served Population - Development with Kalu Ganga) Towns East Project area (Priority 1) to be Commissioned in 1996. Future Expansion area (Priority 2) to be commissioned in 2010 or later. (as Low Development Area) Non-Priority area not to be commissioned before 2020.

Progress Percentage to Full Development Deman

I	t);	eve	юрл	nent	De	mand	

Year	1995	2000	2005	2010	2015	2020	2025	2030
Priority 1	0%	25%	47%	62%	73%	81%	85%	88%
Priority 2				0%	15%	25%	33%	40%
Non Priority						0%	15%	25%

Predeshiya Satha	Sub Division	Priority	1990 Population	1990	1995	Full Developr 2000 200	nent Population 5 2010	2015	2020	2025	2030 N	0. 19		2000	Served 2005	Population 2010	2015	2020	2025	2030	1995	2000	Total Popul 2005	alion by Nod 2010	e 2015	2020	2025	2030
Kaduwela P.S.	1 Nawagamuwa* 2 Ihala Bomiriya*	2	3,808 4,939	2,856	3,691 4,788	4,482 5	416 6,386 ,026 8,284	5 7,391	8,430 10,936	8,430 10,936	8,430 2 10,936 2	81	0	0	0	0	1,109	2,108	2,782 3,609	3,372	,,,,,,,				4414	4747		1030
	3 Ranala*		2,264	1,698	2,195	2,665 3	221 3,797	4,395	5,013	5,013	5,013 2	81	ŏ	ŏ	ŏ	ò	0	0	752	1,253								
	4 Pahala Bominya* 5 Hewagama*		4,425	3,319 4,631	4,290 5,985		295 7,427 782 10,355		9,797	9,797 13,670	9,797 2 13,670 2		0	0 1,817	0 4,128	0 6,420	0 8,748	0 11,073	1,470 11,619	2,449 12,029								
	6 Kotalawala*	1	5,454	4,090	5,287	6,419 7	757 9,148	6 10,585	12,074	12,074	12,074 2		ŏ	1,605	3,645	5,671	7,727	9,780	10,263	10,625								
	7 Welweia* 8 Malambe*		6,483 9,570	4,862 7,178	6,284 9,277		222 10,873 613 16,050		14,353 21,188	14,353 21,188	14,353 2 21,188 2		0	1,908 2,816	4,334 6,398	6,741 9,951	9,186 13,560	11,626 17,162	12,200 18,010	12,631 18,646								
	9 Pore (Part North)		3,859	2,694	3,741		489 6,472		8,544	8,544	8,544 2		ŏ	2,010	0,355	3,5,11	13,300	0	1,282	2,136								
	10 Dedigamewa		6,098	4,572	5,909		671 10,224		13,497	13,497	13,497 2		0	0	0	0	0	0	2,025	3,374								
	11 Oruwata/Korakota 12 Alugiriya		9,096	6.822 7.749	8,817 10,015	12,159 14	938 15.254 595 17.327		20,137 22,873	20,137	20.137 2			0			······ 0		3,021	5,034 5,718	0	8,145	18,506	28,783	41,768	54,483	67,032	75,925
	13 Pere (Part South)		3,859 4,373	2,894	3,741	4.542 5	469 6,472 220 7,334	7,490	8 544	8,544		8	0	<u>0</u>	0	0	0	Ō	1,282	2,136 8,520	0	0	0	0	0	0	4,713	7,854
	14 Talahena* 15 Talangama S.*		4,373	3,280 14,664	4,239 18,953	5,147 6 23,012 27	220 7.334 811 32,791		9,682 43,288	9.682 43.288	9,682 5	53 53	0	1,287 5,753	2,924 13,071	4,547 20,330	6,196 27,703	7,842 35.064	8,230 36,795	8,520								
	16 Telangama N.*	1	17,013	12,760	16,492	20,023 24	200 28,532		37,667	37,667	37,667 5		ŏ	5,006	11,374	17,690	24,106	30,510	32,017	33,147								
	17 Ballaramula 18 Kalapatuwawa*		24,234 9,776	18,176 7,332	23,492 9,476		471 40,643 905 16,395		53,654 21,643	53,654 21,643	53,654 5 21,643 5			7,130 2,876	16,201	25,199 10,165	34,337	43,460	45,606	47,215	. 0	19,175	43,570	67,766 10,165	92,342	116,876	122,647	126 976 19 046
	19 Hokendara S.	2	6,920	5,190	6,708	8,144 9,	843 11,606	13,431	15 321	15,321	15 321 5	4	Ŭ,	2,070	0,000	0	2,015	3,830	5,056	6,128	··· ··•	2,010	0,000	10,105	12,001	17,551	10,357	13,010
	20 Hokandara N. Total of Kaduwela P.S.	2	5,171	3,878	5,013	6,086 7. 192,308 232	355 8,672 420 274,033		<u>11,448</u> 361,760	11,449	11,448 5 361,760	·		30,197	68,611	106,714	1,505	2,862	3,778	4,579	0	30,197	68.611	0	3,520	-6.692 195,582	8,834	10,708
Vaharagama P.S	1 Mediwela (Exis.)	Exis.	12,496	9,372	10,536	11,717 12,	378 13,056	13,729	14,416	14,418	14,418 5		0,536	11,717	12,378	13,056	13,729	14,418	14,418	14,418	10,536	11,717	12,378	13,056	13,729	14,418	14,418	14,418
	2 Gangodawila (Exis.) 3 Udahamula (Exis.)	Exis. Exis.	12,778 16,315	9,584 12,237	10,774 13,756	11,982 12, 15,298 16,	657 13,350 161 17,046		14,744 18,825	14,744 18,825	14,744 5 18,825 5		0,774	11,982 15,298	12,657	13,350 17,046	14,039 17,925	14,744 18,625	14,744 18,825	14,744	24,530	27.280	28.818	30 396	31,964	33,569	33,569	33,569
1	Total (Existing Area)	1	41,590	31,192	35,066	38,997 41,	196 43,452	45,693	47,987	47,987	47,987	- 3	5,065	38,997	41,196	43,452	15,693	47,987	47,987	47,987	35,066	38,997	41,196	43,452	45,693	47,987	47,987	47,987
	4 Pennipitiya* 5 Madiwela*		5,539	4,154	4,670 2,634		487 5,787 094 3,264		6,391 3,605	6,391 3,605	6,391 4 3,605 5		0	1,298	2,579	3,588	4,442	5,177 2,920	5,432 3,064	5.624 3,172	0.	1,298 732	2,579 1,454	3,588 2,024	4,442 2,506	5,177 2,920	5,432 3,064	5,624
	6 Thalapathipiliya		7,661	5,746	6,459	7,184 7,	589 8,004	8,417	8,840	8,840	8,840 5	19	ŏ	1,796	3,567	4,963	5,144	7,160	7,514	7,779	Ő	1,795	3,567	4,963	6,144	7,160	7,514	7 779
	7 Nawinna* 8 Polwsila/Depanama*		12,067 5,854	9,050 4,390	10,174 4,936		953 12,607 798 6,116		13,923 6,754	13,923 6,754	13,923 5 6,754 5		0	2,829	5.618 2.725	7,817 3,792	9,678 4,695	11,278 5,471	11,835 5,741	12,253 5,914								
	9 Pamunuwa*	i	2,973	2,230	2,507	2,788 2	945 3,106	3,266	3,430	3,439	3,430 54	2	ŏ	697	1,384	1,926	2,384	2,779	2,916	3,019								
	10 Maharagama* 11 Godigamuwa S.*		19,492 8,508	14,619 6,381	16,435 7,174		307 20,365 428 8,889		22,490 9,817	22,490 9,817	22,490 5 9,817 5		0	4,569 1,994	9,074 3,961	12,626 5,511	15,633 6,824	18,217 7,952	19,117 8,344	19,792 8,639								
	12 Godigamuwa N.*		13,491	10,118	11 375	12.650 13.	363 14.095		15,567	9,817 15,567	9,817 55		ŏ	3,163	6,281	6,739	10,820	12,609	13,232	13,699	0	14,624	29,043	40,411	50,034	58,306	61,185	63,344
	Total (New Service Area) Total of Maharagama P.S.	· · · · · · · · · · · · · · · · · · ·	76,710	59,033	66,364	73,803 77.			90,818	90,818	90,818		0	18,451	36,643 77,839	50,985 94,436	63,126 108,819	73,562	77,195	79,920	0	18,451 57,448	36,643 77,839	50,985	63,126	73,562	77 195	79,920
Iomagama P.S	1 Panagoda East*		120,300 3,568 2,279	90,225 2,675	101,430 3,005	112,800 119, 3,346 3, 2,137 2,	160 125,685 535 3,728	3.917	138,805	138,805	138,805		0	0	0	0	0	Ö	617	1,028	35,065				106,819	121,000	125,182	127,907
÷	2 Martapata*	1	2,279	1,709	1,919		258 2,381	2,502	2,525	2,625	2,625 41	1	0	534	1,061	1,477	1,826	2,127	2,232	2,310								
	3 Kollawa* 4 Rukumale*		10,399 3,748	7,799 2,811	8,758 3,157	9,751 10, 3,515 3,	301 10,855 713 3,917		11,979 4.318	11,979 4,318	11,979 41 4.318 41	· •	0	2,438 879	4,842 1,745	6,737 2,428	8,334 3,004	9,703 3,497	10,182 3,670	10,542 3,800								
	5 Markumbura (Pennipiliya)*	1	1,112	834	937	1,043 1,	102 1,162	1,221	1,281	1,281	1,281 41	1		261	518	721	891	1,038	1,089	1,128	0	4,111	8,165	11,362	14,055	16,365	17,173	17,779
	6 Godagama 7 Habarakada	2	1,955 3,951	1,466 2,963	1.647 3.328		937 2,043 914 4,129		2,252 4,551	2,252 4,551	2,252 49		ŏ	ŏ	0	0	322 651	563 1,138	743 1,502	901 1,821								
	8 Hiripitiya		3,185	2,390	2,683	2,988 3.	156 3,329	3,498	3,671	3,671	3,671 49	8	Ó	747	1,483	2,064	2,553	2,973	3,120	3,230							•	
	9 Homagama 10 Markumbura (Homagama)*		10,713	8,035 634	9,022 937		612 11,194 102 1,162		12,341	12,341 1,281	12,341 49		0	2,511 261	4,985	6,940 721	8,585 891	9,996 1.038	10,490 1,089	10,860								
	11 Panagoda West	2	7,332	5,499	6,174	6,874 7	262 7,661	8,048	8,445	8,446	8,446 49	8	ō	Ŏ	0	0	1,207	2,111	2,787	3,378								
	12 Pilipana North 13 Thalawathugoda		4,369 4,365	3,291 3,274	3,696		347 4,585 324 4,561		5,055	5,055 5,029	5,055 49 5,029 57			1,023	2,032	2,828	723	1,264	1,668	2,022	• .	3,519	6,989	9,725	14,933	19,083	21,399	23,339
	14 Kalalgoda		1,289	967	1,686	1,209 1,3	277 1,347	1,415	1,485	1,485	1,485 57		ŏ	302	600	835	1,033	1,203	1,262	1,307	0	1,325	2,633	3,663	4,531	5,276	5,536	5,732
rand Tolal	Totel of Homagema P.S.	+	59,400 343,100	44,550 257,325	50,025 309,848	55,695 58, 350,603 410	40 62,067 120 461,785		68,425 568,990	68,425 568,990	63,425 568,990		0 5.066	8,956 96,600	17,787	24,751 225,901	33,519 293,819	40,724 357,856	44,726 391,530	47,878	35,066	8,956 96,600	17,787	24,751 225,901	33,519 293,819	40,724 357,856	44,109 390,913	46,851
												t	0,000	30,000	104,2.0	220,001	233,013	001,000	001,000	410,6341	33,000		104,200	215,501	233,013	307,000	390,913	415,250
															Ĩ	Population Su	mmary by No		<u> </u>	Node	··		Total Se	rved Popula	tion			
																				NO.	1995	2000	2005	2010	2015	2020	2025	2030
		Projected 9	Full Developme	nt Population	,											laduwela Panagoda				281		8,145	18,506	28,783	41,768	54,483	67,032 0	75,925
			en beveloprile														owns East Pr	oject Area)		411	ö	5,410	10,744	14,950	18,498	21,542	22,606	23,404
		Kaduwela P.		1990	1995 158,393	2000 2005 192,308 232	2010 20 274,033	2015	2020	2025	2030				H	lomagama (i	Towns South	Project Area)		498	0	3,519	6,989	9,725	14,933	19,053	26,112	31,194
		Maharagama		90,225		192,398 232,4			361,760 138,805	361,760 138,805	361,760 138,805					N	adiwela/Kolte	, ,		528	10,536	12,449	13,832	15,079	16,234	17,338	17,482	17,590
		Homagama	P.S.	44,550	50,025	55,695 58,6	40 62,067	65,208	68,425	68,425	68,425				~	N N	ladiwela/Kolle	i>		529	24,530	29,076	32,385	35,359	38,108	40,729	41,083	41,348
		L	Total	251,325	309,848	360 803 410 4	20 461,785	514,521	568,990	568,990	568,990				<u>1</u>	otal of Madh	wela/Kolte (Te	74115 E.858 Ar	ca)		35,066	41,525	46,217	50,435	54,342	58,067	58,565	58,938
															N	faharagama T	(Maharagama owns East Ba	Project) Illaramula Ar	ea	552	0	14,624	29,043	40,411	50,034	58,306	61,185	63,344
																8	alla. (High Zo	ne)>		563	0	19,176	43,570	67,766	92,342	116,876	122,647	126,976
																	atta. (Low Zor atta/Remote)		ļ	568 574	. 0	2,876 1,325	6,535 2,633	10,165 3,663	13,851 8,051	17,531 11,968	18,397 14,370	19,046
															r		nulla (563/568				<u> </u>	23,378	52,738		114,245		155,414	162,462
																			Total	7	35,066	96,600	164 238	225 901	293,819	357 856	390 913	415 286
																-		······			00,000	~~,~~~		210,001	203,013	401,000	000,010	713,200

	1990	1995	2000	2005	2010	2015	2020	2025	2030
Kaduwela P.S.	122,550	158 393	192,398	232,420	274,033	317,146	361,760	361,760	361,760
Maharagama P.S.	90,225	101,430	112,800	119,160	125,685	132,167	138,805	138,805	138,805
Homagama P.S.	44,550	50,025	55,695	58,840	62,067	65,208	68,425	68,425	68,425
Totai	257,325	309,848	360,803	410,420	461,785	514,521	568,990	568,990	568,990

Population Summary by Node	Node	1		Total S	erved
	No.	1995	2000	2005	201
Kaduwcia>	281	0	8,145	16,506	2
Panagoda>	402	0	0	0	
Pannipitiya (Towns East Project Area)	411	0	5,410	10,744	14
Homagama (Towns South Project Area)	498	0	3,519	6,989	
Madiwela/Kolte>	528	10,536	12,449	13,832	1
Mediwela/Kolle>	529	24,530	29,076	32,385	35
Total of Madiwela/Kotte (Towns East Area)		35,066	41,525	46,217	5
Maharagama (Maharagama Projeci)	552	0	14,624	29,043	4
Towns East Ballaramula Area	1	1			
Balla (High Zone)->	563	0	19,176	43,570	6
Batta. (Low Zone)>	568	0	2,876	6,535	10
Balla/Remote Zone ->	574	· 0	1,325	2,633	3
Total Ballaramula (563/568/574)		0	23,378	52,738	8
Total		35,066	96,600	164,238	225

Population Allocation from PS Level to GS Division Level (2) New Service Area (Served Population - Development with Katu Ganga) Towns South Project area (Priority 1) to be Commissioned in 1998. Future Expansion area (Priority 2) to be commissioned in 2010 or later. (as Low Development Area) Non-Priority area not to be commissioned before 2020.

Progress Percentage to

Progress Percentage to	
Full Development Demand	

0

Year	1995	2000	2005	2010	2015	2020	2025	2030
Priority 1	0%	13%	39%	55%	69%	78%	84%	87%
Priority 2				0%	15%	25%	33%	40%
Non Priority			1			0%	15%	25%

Image: 1 Production Productio	Pradeshiya Sabha	Sub Division	Priority	1990	[Ful De	velopment Po	oulation					Node			Serva	Population				T				tion by Node		<u> </u>		
Alter 1/2 2 Province 1/2	Prauconya bauna	360 (34) 501	Facility		1990	1995								No.	1995								1995	2000	2005	2010	2015	2020	2025	2030
3 Subscription 1 State 100 State 100 State 100 State 100 <td>esbewa P.S.</td> <td>1 Pepiliyana (Exis.)</td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>~</td> <td>4 604</td> <td>16.084</td> <td>26 475</td> <td>36.013</td> <td>46 667</td> <td>50,146</td> <td>52,0</td>	esbewa P.S.	1 Pepiliyana (Exis.)													0								~	4 604	16.084	26 475	36.013	46 667	50,146	52,0
4 Washing 1 Solid		2 Boralosgamuwa													···· ····									4,004	10,004	20,475	30,552	40,007	50,140	
9 Balance 2 2.568 2.56			1 1												Ň															
a backware f 5 5.20 5.00 5.00 5.00 5.00 5.00 5.00 5.00 6.00 7.00															ň		2,405	1,0-1												
i Description 1 Solids Solid Solid <th< td=""><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ň</td><td>ő</td><td>õ</td><td>õ</td><td>.,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>			2												ň	ő	õ	õ	.,											
a Dimes j Dimes															Ď	754	2.635	4.337	6.051	7.646										
b 0			1												Ő	0	0	. 0	0											
10 Construint/operation 2 Construint/operation Construint/operation <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td>D</td><td>ō</td><td>Ű</td><td>0</td><td>0</td><td>883</td><td>1,472</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>															0	D	ō	Ű	0	0	883	1,472								
11 Instand 2 2 2 2 2 2 0														542	0	Ó	0	0	802	1,499	1,978	2,398								
1 5.822 4.38 5.66 5.00 6.00 9.00 <			2						10,799	12 227	13,702	13,702	13,702	542	0	0	0	0		3,425										
13 10 1000000000000000000000000000000000000			1 1					6,998	8,023	9,083	10,179	10,179	10,179	542	0	761	2,729	4,493												
11 Justicity 1.338 1.250 2.250 1.250 2.250 4.250 <			2		3,831	4,508	5,246	6,109							0	0	0	<u>.</u> 0												
1 1 0.027 2.87 0.23 1.6.89 1.6.27 1.6.2				2,334	1,750										0	0	0	0												
17 Maskedwa 2 Solid (10) Solid (10) </td <td></td> <td>15 Kahapola</td> <td></td> <td>0</td> <td>0</td> <td>. 0</td> <td>0</td> <td></td> <td>•</td> <td></td>		15 Kahapola													0	0	. 0	0		•										
n is Massendim 2 0 is 0 0 is 0 0<		16 Kesbewa	1												0	1,415	4,942	8,135		14,340										
in b instantion i 3.364 2.27 3.27 3.28 4.30 6.34 6.34 6.34 5.20 0 4.97 1.700 2.788 3.501 4.535 1.500 5.500 5.500 2 Mange 1 0.0001 5.200 4.520 7.200															0	0	0	0	•	0										
view view <t< td=""><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td></td><td>. 0</td><td>2 709</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			2												0		. 0	2 709												
Prime 2 3.070 2.28 2.66 1.00 4.64 5.20 5.23			1 1												1 N															
¹ / ₂ 2 manupola ¹ / ₁ 4,148 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td>1,330</td><td></td><td>7,000</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>															0	1,330		7,000												
1 1															i ő	554		3 185												
21 Encode East 2 is Encode East 2 is Encode West 1 Unlike 7 code 9.472 (0.255 (0.257														542	ŏ								e	7 507	26 226	43 169	68.408	91.388	166,974	117,7
2b Example Mean 1 4,756 3,374 4,206 4,855 5,700 6,230 5,220 0 0.532 2,233 5,669 7,716 0 7,156 0 7,156 0 7,156 0 7,235 0,215 0,211 0,220 2,8516 0 2,813 0,326 0,220 2,8516 0 2,813 0,326 0 0 1,825 0,117,102 0,116,225 2,218 0,218 0,116,225 2,218 0,218 0,116,225 2,218 0,218 0,218 0,216 0 1,225 1,11 0,112,25 1,11 0,112,25 1,11 0,112,25 1,11 0,112,25 1,11 0,112,25 1,11 0,112,25 1,11 0,112,25 1,11 0,112,25 1,11 0,112,25 1,11 0,112,25 1,11 0,112,25 1,112,25 1,112,25 1,112,25 1,11,25 1,112,25 1,112,25 1,112,25 1,11,25 1,112,25 1,112,25 1,112,25 1,112,25 1,112,25 <td></td> <td></td> <td>··• • • • • • • • • • • • • • • • • • •</td> <td></td> <td>552</td> <td> ŏ</td> <td></td>			··• • • • • • • • • • • • • • • • • • •											552	ŏ															
20 Presential 1 5/200 4/230 4/277 2/230 4/230 2/231 4/330 6/202 6/201 7/2640 7/230 6/230 7/230 6/230 7/230 6/230 7/230 6/230 7/230 6/230 2/25/31 6/25/31 7/26/32 7/26/31 7/25/31 7/25/30 7/25/30 7/25/30 7/25/30 7/25/30 7/25/30 7/25/30 7/25/30 7/25/31											8,290	8,290	8,290	552	0															
$\frac{1}{10000000000000000000000000000000000$								6,745	7,733			9,811		552	i o								ø	2,813	9,828	16,178	22,567	28,516	30,642	31,81
Sector P / S (*10) 2 6.923 5.194 5.133 5.883 5.198 6.497 6.603					124,650	146,663	170,688	198,760	227,850		289,005				. 0	14,925		85,822	127,907	166,570		201,613	0	14,925	52,138	85,822	127,907	166,570	187,762	201,6
3 Mutanità 2 6000 4/00 4/00 4/00 0	enadura P.S. (Parl)	1 Dibbeda	1 2		2,947										0	0	0	0												
4 Provedla (255, Area) 2216 2.236 2.236 2.245 2.772 2.903 <td></td> <td>2 Kaludewala</td> <td>2</td> <td>6,925</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>. 0</td> <td></td>		2 Kaludewala	2	6,925											0	0	0	. 0												
3 Weinpols 27 4,338 3,180 3,285 3,975 3,975 3,975 1,976 4,164 4,4164 4,4164 4,4164 4,4164 4,4164 4,4164 4,4164 4,4164 4,4164 4,4164 4,417 1,370 4,474 1,370 4,477 1,370 4,477 1,370 4,477 4,437 4,56 0 0 0 0 0 0 0 0 0 <td></td> <td>3 Malamula</td> <td>1 2</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td></td>		3 Malamula	1 2												0	0	0	0												
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$\frac{1}{6 \text{ Gordsamb}} = \frac{1}{6 \text{ Gordsamb}} + \frac{1}{6 \text{ Gords}} + $			2												0	0	0	Ů						n 100		0.047				10.0
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$\frac{1}{9} = \frac{1}{1111111111111111111111111111111111$			1 1																											
9 Final actual down 1 7.519 5.639 5.699 6.477 5.736 7.386 9.275 5.539 5.395 5.395 5.393 5.393 5.394 4.595 5.389 5.394 4.595 5.389 5.790 6.611 20.974 31.439 40.604 4.7925 5.7 13 Tartheim Aa 1 5.161 3.871 1.569 5.259 6.259 6.259 6.259 6.251 1.244 5.443 6.447 5.256 5.256 5.256 5.206 7.162 5.206 7.162 5.206 7.162 5.206 7.178 2.316			1 1												l Å	700	2,135	5,250												
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14 Trotal walls 1 0.408 6.306 6.596 6.899 7.205 7.688 8.259 8.259 8.259 8.259 1.300 4.074 6.167 7.688 9.312 10.004 10.309 0 5.691 2.918 2.113 1.199 1.199 1.199 1.199 1.199 1.199 1.199 1.199 1.199 1.199 1.959 495 0 1.300 4.074 6.107 7.888 9.312 10.000 10.739 0 6.691 2.918 2.418 5.400 6.6752 71.778 2.318 9.116 2.3508 34.084 48.318 59.460 66.752 71.778 2.318 24.041 75.646 119.906 176.225 226.031 254.514 273.390 2.318 24.041 75.646 119.906 176.225 226.031 254.514 273.390 2.318 24.041 75.646 119.906 176.225 226.031 254.514 273.390 2.318 24.041 75.646 119.906 176.225 226.031 254.514 273.390 2.318 24.041 75.646														496	Ū.				3,341	3,944	4,238	4,400								
1 12 (165) 9 (318) 9 (356) 9 (396) 11 (431) 11 (569) 11 (560) 12 (560)<			1							7 888	8,259	8,259	8,259	496	0	897	2,811	4,214	5,443	6,425	6,904	7,169								
Total of Panadora P.S. 167 300 80,475 84,180 80,477 92,000 96,640 105,660 105,600 105,400 105,400 105,400 105,400 105,400 105,400 105,400 105,400 66,752 71,778 2,318 9116 23,508 34,084 48,318 59,460 66,752 71,778 2,318 9116 23,508 34,084 48,318 59,460 66,752 71,778 2,318 24,041 75,646 119,906 176,225 226,031 234,614 273,390 2,318 24,041 75,646 119,906 176,225 226,031 234,614 273,390 2,318 24,041 75,646 119,906 176,225 226,031 234,614 273,390 2,318 24,041 75,646 119,906 176,225 226,031 234,614 273,390 2,318 24,041 75,646 119,906 176,225 226,031 234,614 273,390 2,318 24,041 75,646 119,906 176,225 226,031 24,041 75,646			1							11,431	11,969	11,969	11,969	496	0	1,300	4,074	6,107	7,888				0						52,468	55,07
Projected Full Development Population Total Served Population Vision P.S. 1995 2000 2005 2010 2015 2020 <					80,475	84,180		92,000	96,040		105,400	105,400	105,400				23,508					71,778							66,752	71,77
Projected Full Development Population Node Total Served Population Total Served Population 2020	rand Totel			273,500	205,125	230,843	258,735	290,760	323,890	358,625	394,465	394,465	394,485		2,318	24,041	75,646	119,906	176,225	226,031	254,514	273,390	2,318	24,041	75,646	119,906	176,225	225,031	254,514	273,39
Projected Full Development Population Node Total Served Population Total Served Population 2020																														
No. 1995 2000 2015 2020																		Poordation St	mmanuthy	lade		Node			Total Se	rved Poortatio	<u> </u>			
Projected Full Development Population Projected Full Development Population <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>r oppedatori oc</td><td>standary by th</td><td></td><td></td><td></td><td>1995</td><td>2000</td><td></td><td></td><td></td><td>2020</td><td>2025</td><td>2030</td></t<>																		r oppedatori oc	standary by th				1995	2000				2020	2025	2030
Projected Full Development Population Panadura (Kesewalta)> 496 0 6,691 20,974 31,439 40,604 47,935 525 Main Stress 1930 1095 2000 2015 2010 2025 2030 Kesbewa (Exis, Maharagama)> 529-A 0 4,604 16,084 26,475 36,932 46,667 502 Kesbewa (Pityandala)> 542 0 7,507 26,226 43,169 88,408 91,858 100 Kesbewa (P.S. 122,4550 146,663 170,698 199,760 227,850 259,085 289,085 Kesbewa (from Kaletuwawa Kne)> 552 0 2,813 9,828 16,178 22,557 26,016 30 Panedura P.S. 80,475 84,180 88,047 92,000 96,040 105,400 105,4																		Panadura P.s	<u>,</u>							2,645			14,285	16,69
Kesbewa (Eds. Meharagama)> 529-A 0 4.604 16.084 26,475 36,932 46,667 55 1990 1595 2000 2015 2020 2025 2030 Kesbewa (Eds. Meharagama)> 542 0 7,507 26,226 43,169 68,808 91,808 100 Kesbewa (Physecial) > 552 0 2,813 9,826 16,178 227,650 289,085 Kesbewa (from Kaletuwawa kne) > 552 0 2,813 9,826 16,178 22,567 285,065 289,085 Kesbewa (from Kaletuwawa kne) > 552 0 2,813 9,826 16,178 22,567 285,065 289,085 Kesbewa (from Kaletuwawa kne) > 552 0 2,813 9,826 16,178 22,567 285,065 289,085 Kesbewa (from Kaletuwawa kne) > 552 0 2,813 9,826 16,178 22,567 28,040 105,400 105,400 105,400 105,400 105,400 105,400 105,400 1			Orniontod	Sull Develop	nant Donut	Hinn														_>		496	0	6 691	20.974	31 439	40 504		52,468	55,01
1990 1095 2000 2005 2010 2020 2023 2030 Kesbewa (Pityandala)→ 542 0 7,507 26,226 43,169 68,008 91,368 100 Kosbewa P.S. 124,550 146,653 170,688 195,760 227,850 257,958 289,085 289,085 Kesbewa (irom Kalatuwaw kne)→> 552 0 2,813 9,828 16,178 22,259 28,516 300 Panactura P.S. 60,475 84,160 83,047 32,000 96,040 105,400 105,400 105,400 105,400 105,400 105,400			FIUJECIEU	I OU DRAGODI	nent ropus	1000																	Ō						50,146	52,0
Kosbewa P.S. 122,550 146,653 170,693 195,760 227,850 289,085 289,085 Kesbewa (from Kalatuwawa kne)> 552 0 2,813 9,828 16,178 22,567 285,163 300 Panactura P.S. 80,475 84,180 86,047 92,000 96,040 105,400					1990	1995	2000	2005	2010	2015 1	2020 1	2025 I	2030									542	Ō	7,507	26,226	43,169			106,974	117,7
Panackara P.S. 80,475 84,180 88,047 92,000 96,040 100,667 105,400 105,400 105,400 105,400			Kesbewe P	.s.																		552	0	2,813		16,178	22,567	28,516	30,642	31,8
													105,400					······												
					205,125	230,843	258,735	290,760	323,890	358,625	394,485	394,485	394,485								Total	}	2,318	24,041	75,646	119,906	176,225	226,031	254,514	273,3

Projected Full Development Popula	liór

								- 1	
	1990	1995	2000	2005	2010	2015	2020	2025	2030
Kesbewa P.S.	124,650	146,653	170,688	198,760	227,850	257,958	289,085	289,085	289,085
Panacura P.S.	80,475	84,160	88,047	92,000	96,040	100,667	105,400	105,400	105,400
Total	205,125	230,843	258,735	290,760	323,890	358,625	394,485	394,485	394,485

Population Summary by Node	Node			Total S
	No.	1995	2000	2005
Panadura P.S>	494	2,318	2,425	2,534
Panadura (Keselwatta)>	496	0	6,691	20,974
Kesbewa (Exis, Maharagama)>	529-A	0	4,604	16,084
Kesbewa (Piiiyandala)>	542	0	7,507	26,226
Kesbewa (from Kalatuwawa Ine)>	552	0	2,813	9,828
Totel		2,318	24,041	75,646

4.2 - 4

Population Allocation from PS Level to GS Division Level (3) New Service Area (Served Population - Development with Kalu Ganga) Towns North Project area (Priority 1-A) to be Commissioned in 1999 (as Urgent Development Area) Priority 1-B Area to be commissioned in 1999 (as High development area) Priority 2 Area to be commissioned in 2010 (as High development area) Non-Priority area not to be commissioned before 2020.

0

Progress Percentage to
Full Development Demand
Fuil Development comand

Year	1995	2000	2005	2010	2015	2020	2025	2030
Priority 1-A		5%	50%	70%	75%	80%	85%	90%
Priority 1-8		5%	35%	53%	67%	75%	83%	36%
Priority 2				0%	15%	25%	33%	40%
Non Priority						0%	15%	25%

Pradeshiya Sabha	Sub Division	Priority	1990	1990	1995	Full De 2000	velopment P 2005	opulation 2010	2015	2020	2025	2030	Nede No.	1995	2000	Serve 2005	d Population 2010	2015	2020	2025	2030	1995	2000	Total Popula 2005	tion by N 2010
Ja Ela P.S.	1 Walipola	}	Population 10,366	7,774	9,529	11,278	13,131	15,050	17,638	20,317	20,317	20,317	TA -		0 0	0	0	0	0	3,048	5,070				
	2 Batuwatta	[17,232	12,924	15,841	18,748	21,828	25,020	29,322	33,775	33,775 54,308	33,775 54,309	141		0 0 0 1,507	17,549	0 28,161	0 35,360	0 43,447	5,066 46,162	8,444 46,878	0	1,507	0 17,549	28,16
	3 Ragama 4 Nagoda		27,708	20,781 6,545	25,472 8,023	30,148 9,495	35,098	40,230 12,871	47,147	54,308 17,105	17,105	17,105	158			5,527	8,870	11,137	13,684	14,539	15,395				20,00
	5 Rilavila	1-A	3,518	2,838	3,234	3,827	4,456	5,107	5,980	8,895	6,895	8,895	158			2,228	3,575	4,489	5,516	5,860	6,205				
	6 Kandana	1-A	10.504	7,878	9,857	11,429	13,306	15,251	17,874	20,550	20,589	20,589	156 158			6,653 2,675	10,676 4,642	13,405 6,677	16,471 8,868	17,500 9,814	18,530 10,189	0	1,556	17,083	27,76
	7 Nedorupitiya 8 Thodella (Parl)	1-8 1-A	6,033 3,529	4,524	5,548	6,563 3,840	7,641	8,759	10,265	11,824 8,917	11,824 6,917	11,824	101			2,235	3,587	4,504	5,534	5,850	6,226	•	1,010		
	9 Něvandama		8,946	6,709	8,224	9,733	11,332	12,989	15,222	17,534	17,534	17,534	161	0		0		0	0	2,630	4,383				
	10 Kudahakapola	1-A	3,454	2,591	3,175	3,758	4,376	5,015	5,878	6,770	6,770	6,770	161		D 188 D G	2,188 0	3,511 0	4,408 0	5,416	5,755 1,954	6,093 3,257				
	11 Kurunduwatta 12 Kanuwana	1-8	6,646	4,985	6,110 4,245	7,231 5,024	8,419 5,849	9,650 6,704	11,309 7,857	13,027 9,051	13,027 9,051	13,027 9,051	161		0 251	2,047	3,553	5,264	6,788	7,512	7,784				
	12 Kanowana 13 Ekala	1.0	5,648	4,236	5,192	8,145	7,154	8,200	9,610	11,070	11,070	11,070	161	0	D · O	0	0	0	0	1,881	2,768				
	14 Batagama	1-B	6,755	5,066	6,210	7,350	8,557	9,508	11, 195	13,241	13 241	13.241	161	9	D 367 D 349	2,995	5,198	7,701	9,930 10,061	10,990	11,387	0	999 349		15,84 6,52
	15 Dandugama	<u>1-A</u>	6,416 130,100	4,812	5,698	6,981 141,548	8,127	9,316	10,917	12,576	12,576	12,576	185			46,161	76,294	101,335	125,715	149,061	165,915	0	4,421		78,29
Ja Ela U.C.	Total of Ja Ela P.S.	1-A	33,000	24,750			33,840	37,567	41,917	46,410	46 110	46,410	161	(1,512	16,920	28,297	31,438	37,128	39,449	41,769	Ó	1,512		26,25
Kalana P.S. (Parl)	1 Alawalupitiya	1-A	2,049	1,537	27,523 2.087	30,237 2,747	3,351	3,977	4,837	5,727	5,727	5,727	165	(0 137	1,675 2,953	2.784	3,628	4,582 8,077	4,868 8,582	5,155 9,086	Q	379	4,629	7,69
	2 Udammita (Ekala IPZ) 3 Amandutuwa	1-A	3,612 2,192	2,709	3,679 2,233	4,843	5,907 3,586	7,011	8,526 5,175	10,096	10,095	10,093	166			2,953 D	4,906 0	6,395 776	1,532	2,022	2,451		318	1,025	1,03
	4 Ganepola		15,589	11,692	15,877	20,900	25,493	30,259	36,798	43,573	43,573	43,573	168	Ċ	ō õ	Ď	ŏ	Ô	0	8,536	10,893				
	5 Kotugeda		972	729	660	1,304	1,590	1,837	2,295	2,718	2,718	2,718	165		0 C	0	0	0	0	408	679				
	6 Kuswala 7 Raddoluwa		2,086 2,235	1,565 1,677	2,125	2,797 2,997	3,412 3,656	4,050 4,339	4,925	5,832 6,248	5,632 6,243	5.832 6,248	165 166) ()) ()	0	0	0	0	875 937	1,458				
	7 Naboolwa 8 Seedwa	2	4,657	3,493	4,743	5,244	7,616	9,040	10,993	13,017	13,017	13,017	188		5 õ	ŏ	Ő	1,849	3,254	4,296	5,207	0	Û	o	
	9 Andiambalama		3,418	2,564	3,481	4,583	5,590	6 635	8.069	9.554	9,654	9,554	183	6	0 C	Ũ	0	0	0	1,433	2,389				
	10 Dewamottawa		3,260	2,445	3,320	4,371	5,331	6,328	7,695	9,112	9,112 5,988	9,112	183 183		0 0	0	0	0	0	1,367 898	2,278				
	11 Heenaliyana 12 Kowinna		2,142 2,701	1,607 2,026	2,182 2.751	2,872 3,621	3,503 4,417	4,158 5,243	5,057 6,376	5,988 7,550	5,988 7,550	5,988 7,550	183) ()) ()	0	0	0	· D	1,132	1,897				
	13 Madawala		2,586	1,939	2,633	3,467	4,228	5,019	8,103	7 227	7,227	7,227	183	Ċ	o õ	õ	0	ō	ō	1,084	1.807				
	14 Thempola		6,731	5,048	6,855	9,025	11,608	13,066	15,889	18,815	18,815	18,815	183		0	0	0	0	0	2,822	4,704	0	0 379	4,629	7,69
	Totat of Kalana P.S. (Part) Katunavake EPZ		47,500	35,625	48,377	63,685	77,680	92,202	112,125	132,770	132,770	132,770	170			4,629	7,692	12,447 0	17,445	37,260	51,053		3/8		7,09
Mahara P.S. (Part)	1 Enderamuća	1.8	6,095	4,571	5,157	5,810	8,482	7.176	8,093	9,041	9,041	9,041	122	6	291	2,269	3,804	5,422	6,780	7,504	7,775				
	2 Pinnemeda	1-8	10,917	8,188	9,237	10,408	11,611	12 855	14,497	16,194	16,194	16,194	122		520	4,064	6,813	9,713	12,145	13,441	13,927 6,176	0	811	6,332	10,61
	3 Gonahera 4 Kirišawela	2	10,408 8,149	7,896 6,111	8,807 6,895	9.922 7.769	11,069 8,667	12,255 9,595	13,821 10,821	15,439	15,439 12,087	12,087	132			õ	0	2,073	3,000	1,813	3,022				
	5 Naranwela		5,351	4,013	4,528	5,102	5,691	6 301	7,106	7,938	7,938	7,938	132	C	3 0	0	. 0	0	0	1,191	1,984				
	6 Udupila		4,447	3,335	3,763	4,240	4,730	5,236	5,905	6,597	6,597	6,597	132	0) 0	0	0	0	0	989 1,905	1,649		•	0	
1	7 Weboda 8 Ihala Karagahamuna	1-8	8,582	6,422 9,330	7 245	8,183	9,107	10,082	11 370	12,701	12,701	12,701	132) 0 593	4,631	7,764	11,068	13,840	15,316	15.670	v	· ·· · · ·	. •	5 A.
	9 Kendaliyadda Palwa		13,695	10,421	11,757	13,247	14 778	16,361	18,451	20,611	20,611	20,611	141	Ō) 0	0	0	0	0	3,092	5,153				
	10 Mahara Nugegoda	1-B	7 136	5,352	6,038	6,803	7.589	8,402	9,475	10,585	10,585	10,585	141	0	340	2,656	4,453	6,349	7,939	8,785	9,103				
	 Pahala Karagahamuna Suriyapakwa 		7,478	5,608 6 243	6,327 7,043	7,129 7,936	7,953 8,853	8,805 9,801	9,930 11,053	11,092 12,347	11,092 12,347	11,092 12,347	141	1 1) 0) 0	0	0	. ŭ	0	1,654 1,852	2,773	0	933	7,287	12.21
la de la della d	Total of Mahara P.S. (Part)	[103,200	77,400	87 323	98,387	109,760	121,520	137,042	153,085	153,085	153,085		Ŏ	1,744	13,619	22,833	34,825	44,564	62,647	73.693	0	1,744		22.83
Seeduwa Kalunayake	1 Ambalamuša		1,735	1,301	1,377 8,324	1,465 8,854	1,569	1,677	1,726	1,777	1,777	1,777	181	0) 0	0	0	0	0 0	266 1,611	444 2,685	. 0	e		
J.C.	2 Bandarawalla 3 Kalunayake North	· · · · · · · · · · ·	2,768	7,866 2,076	2,197	2,337	2,504	10,137	10,437	10,740	10,740	10,740	174	0	, U	ŏ	ő	ő	õ	425	709	Ö	ŏ	ŭ.	· · · ·
	4 Kalunayake		7,070	5,302	5,612	5,968	6,395	6,833	7,035	7,240	7,240	7,240	183	Ð) Ū	0	0	0	0	1,085	1,810			-	
1	5 Kalunayake South		2,699	1,949	2,063	2,194	2,351	2,512	2,587	2,662	2,662	2,662	183	0	0	0	0	0	0	399 2,740	665 4,567		Ċ	0	
	6 Liyanagemula Tolal of Seeduwa katunayake U.C.	———	17,840	13,380	14,160	15,050 35,877	16,138	17,243	17,753	18,268	18,268	18,288 43,520	183	U 0) U	0	0 0	0	· 0	8.528	10,880		0		
Valtala P.S.	1 Matagoda	1-B	20,253	15,190	18.004	21,850	25.421	29,120	31 073	33.081	33,031	33,081	122	0	1,093	8,897	15,434	20,819	24,811	27,458	28,450				
	2 Paliyawalla	1-A	9,899	7,424	9,092	10,679	12,424	14,232	15,187	16,168	16,168	16,168	122	0		6,212	9,962	11,390	12,934	13,743	14,551				
	3 Elçiliwala 4 Horape	1-B 1	8.534 6.226	6,400 4,669	7 839 5 719	9,207 6,717	10,711 7,814	12,270 8,951	13,093 9,552	13,939 10,169	13,939 10,169	13,939 10,169	122	0) 460) 335	3,749 2,735	6,503 4,744	8,772 6,400	10,454 7,627	11,589 8,440	11,987 8,745				
	5 Mahabage	1-A	10,217	7,653	9,385	11,023	12,824	14,590	15,675	16,688	16,668	16,638	122	. 0		6,412	10,283	11,756	13,351	14,185	15,019				
1	6 Uswetakeiyawa		9.655	7,241	8,859	10,416	12 118	13,882	14,813	15,770	15 770	15,770	122	Ó	0	9	0	0	0	2,366	3,943	-		00.045	40.00
ļ.	7 Mathumagala 8 Kupukutawa	1-A	2,618 5,899	1,964	2,405 5,419	2,825	3 287	3,765	4,017 9,051	4,277 9,636	4,277 9,636	4,277	122	0	141	1,643	2,635	3,013	3,422	3,835	3,849	. 0	3,115	29,645 C	49,56
	9 Wessara	1-A	19,297	14 473	17 725	20,818	24 220	27.745	29,606	31,519	31,519	31,510	156	l	1,041	12,110	19,421	22,204	25,215	26,791	28,367	· ·	1,041	12,110	19,42
ľ	10 Nugape		6,386	4,790	5,866	6,890	8,018	9,182	9,798	10,431	10,431	10,431	165		0	0	Q	0	Ö	1,565	2,608				
	11 Parnunugama 12 Delathara		3,832	2,874	3,520 4,400	4,134	4,810	5,510	5,879	6,259	6,259	6,259	165	0) 0	0	0	0	0 0	939 1.174	1,565				
1	12 Delathara 13 Bopitiya		4,790 8,494	3,593	7,602	5.168 9.163	8.012 10.651	6.887 12.212	7,349 13.031	7,824 13,873	7,824 13,873	7,824 13,873	185	0	ν Ο 1 Λ	0	U n	U n	0	1,1/4	3,468	0	0	a	
la la	Total of Waltala P.S.		116,100	87,075		125,255	145,720	168,927	178,125	189,635	189,535	189,635			4,156	41,758	68,983	84,355	97,814	115,390	126,918	ŏ	4,155		68,98
				354,300		494,989	570,240	648 189		820,420							204,099	264,201	322,666	410,335	470,228	ń	12,212	125,087	204,09

Projected	Full	Dova	loomaat	Popul	noite
riojecteu	r un	Deve	ογρητιστικ	ropor	acion

										Population Summary by Node	rioce
											No.
											122
Projected Full Develop	ment Popula	ition									132
											141
	1990	1995	2000	2005	2010	2015	2020	2025	2030	Ragama>	145
Ja Ela P.S.	97,575	119,600	141,548	164,800	188,895	221,375	255,000	255,000	255,000	Welisara, Kandana —->	156
Ja Ela U.C.	24,750	27,523	30,237	33,840	37,587	41,917	46,410	46,410	46,410	Ja Ela U.C. —>	161
Kalana P.S. (Part)	35,625	48,377	63,685	77,680	92,202	112,125	132,770	132,770	132,770		165
Katunayaka EPZ	0	0	0	0	0	0	0	. 0	0	Kalana>	166
Mahara P.S. (Part)	77,400	87,323	88,387	109,760	121,520	137,042	153,085	153,085	153,085	Katunayake EPZ>	170
Seeduwa Katunayake	31,875	33,733	35,877	38,440	41,078	42,292	43,520	43,520	43,520		174
Wattala P.S.	87,075	106 643	125,255	145,720	166,927	178,125	189,635	169,835	189,635	Kalana —->	183
Tolat	354,300	423,199	494,989	570,240	648,189	732,878	820,420	820,420	820,420	Total	

Population Summary by Node

Node

2000

1995

D

2000	Total Popula 2005	tion by Node 2010	2015	2020	2025	2030
2000		2010		2020	1020	1
0 1,507	0 17,549	0 28,161	0 35,360	0 43,447	8,114 46,162	13,523 48,878
1,558	17,083	27,763	35,909	44,539	47,714	50,298
999	9,465	15,849	21,878	27,669	36,381	41,897
349	4,064	8,521	8,188	10,061	10,689	11,318
4,421	48,161 18,920	78,294 26,297	101,336	125,715 37,128	149,061 39,449	165,915 41,769
379	4,629	7,692	10,022	12,659	13,450	14,241
Ŭ.	Ç	0	2,425	4,786	15,074	22,251
0 379	4,629	7,692	<u> </u>	17,445	8,737 37,260	14,561 51,053
C	0	0	0	0	Ő	0
811	6,332	10,617	15,135	18,926	20,945	21,702
	. 0	0	2,073	3,860	10,993	18,005
933 1.744	7,287	12,217 22,833	17,417 34,625	21,779 44,564	30,709 62,647 265	35,985 73,693
0	. 0	0	0	U. O	1,611	2,685
0	0	0	0	Û	425	709
<u>0</u>		0	<u>0</u> .	0	4,225 6,528	7,042
3,115 0	29,645 G	49,561	62,151	72,599 0	81,396 1,445	86.545 2,409
1,041	12,110	19,421	22.204	25,215	26,791	28,367
0	00	0	0	0	5,758 115,390	9,597
4,156	41,758	88,983	84,355	97,814	115,390	126,918
12,212	125,087	204,099	264,201	322,666	410,335	470,228
	Total Se	rved Populati	00			
2000	2005 35,980	2010 60,178	2015 77,286	2020 91,524	2025	2030
	33,860	0	2,073	3,860	10,993	16,000
933	7.287	12.217	17,417	21,779	40,269	51,918
1,507	7,287 17,549	28 161	35,360	43 447	45,162	43,878
2,607	29,193	47,184 42,146	58,114	69,754	74,505	78 665
2,510	26,385	42,146	53,316 18,210	64,797	76,096	84,111
729	8,693 O	14,213	18,210	22,719 4,786	29,897 16,684	35,156 24,936
	0		0	4,760	0	
· · · · o	, o	Ó	0	0	425	709
0	0	0	0	0	12,982	21,604 470,228
12,212	125,087	204,099	264,201	322,666	410,335	470,228

Population Allocation from PS Level to GS Division Level (4)

New Service Area (Served Population - Development with Kalu Ganga)

Biyagama Expansion Area (Priority 1) to be Commissioned in 1995 Future Expansion area (Priority 2) to be commissioned in 2010 or later. (as Low Development Area) Non-Priority area not to be commissioned before 2020.

Progress Percentage to Fuil Development Demand

Year	1995	2000	2005	2010	2015	2020	2025	203
Priority 1	0%	30%	50%	65%	75%	82%	86%	88%
Priority 2				0%	15%	25%	33%	409
Non Priority						0%	15%	25%

	Sub Division	Priorily	1990			Full Dev	velopment P	oputation					Node			Served Population								тогат к оры.	ation by Node	3			
Predestiya Sabha		1	Population	1990	1995	2000	2005	2010	2015	2020	2025	2030	No.	1995	2000	2005	2010	2015	2020	2025	2030	1995	2000	2005	2010	2015	2020	2025	2030
ragama P.S.	1 Biyanwila	2	14,963	11,222	12,618	13,946	15,354	16,809	18,719	20,693	20,693	20,693	121	0	0	0	0	2,808	5,173	6,829	8,277								
- I	2 Bolegala	1 1	5,337	4,003	4,500	4,974	5,476	5,995	6,677	7,380	7,380	7,380	121	0	1,492	2,738	3,897	5,007	8,052	6,347	6,495								
	3 Gonawela	1 1	10,444	7,833	8,807	9,734	10,717	11,732	13,066	14,443	14,443	14,443	121	0	2,920	5,358	7,626	9,790	11,843	12,421	12,710								
	4 Heiyanthudawa	1 1	8,058	6,044	6,795	7,510	8,269	9,052	10,081	\$1,144	11,144	11,144	121	0	2,253	4,134	5,884	7 561	9,138	9,584	9,806								
	5 Mabbima	1	5,034	3,776	4.245	4,692	5,168	5,655	6.298	6,982	6,962	6,962	121	D	1,408	2,583 9,419	3,876 13,405	4,724 17,225	5,709 20,819	5,987	8,127								
	6 Makola		18,359	13,769	15,481	17,111	18,839	20,823	22,967	25,389	25,389	25,399	121	0	5,133	9,419	4,902	6,299	7,613	21,834 7,984	22,342 8,170								
ļ	7 Pamunuwila	1	6,713	5,035	5,661	6,257	6,889	7,541	8,399 3,760	9,284 4,157	9,284 4,157	9,284 4,157	121	Ň	840	1,542	2,195	2,820	3,408	3,575	3,658		15,924	29,220	41,583	66 242	69,755	74,581	77.55
	8 Pattiwela		3,006	2,254	2,535	2,801 8,973	3,084 7,678	3,376 8,105	9,360	10,347	10,347	10.347	127	6,309	6,973	7,678	8,405	9,360	10,347	10,347	10,347	6,309	8,973	7,678	8,405	56,243 9,360	10,347	10,347	10,34
	9 Biyagama (inc.IPZ) 10 Athoromolia	Exts.	3,006 7,482 2,035	5,611	1,716	1,897	2,088	2,286	2,546	2,814	2,814	2,814	132	0.000	0			0		422	704	0.000	0.075	1.075	0.400	9,000	10,047	10.047	
	11 Delgoda	[. 1	1,218	912	1,026	1,134	1,248	1,366	1,522	1,682	1,682	1,652	132	Ő	Ō	õ	ŏ	õ	ŏ	252	421								
	12 Kammalwatta		1,624	1,218	1,359	1,513	1,666	1,824	2,031	2,245	2,245	2,245	132	0	Ō	ō	0	. 0	ō	337	561								
	13 Kaluboda		3,018	2,264	2,545	2,813	3,097	3,391	3,776	4,174	4,174	4,174	132	i o	0	ė	Ó	0	Ó	626	1.044								
	14 Mawaramandiya	2	6,107	4,581	5,150	5,692	6,267	6,861	7,641	8,446	8,446	8,446	132	0	D	0	0	1,145	2,112	2,787	3,378								
	15 Meegahawatta	2	5,374	4,031	4,532	5,009	5,515	6,037	8,723	7,432	7,432	7,132	132	0	·Ð	0	D	1,008	1,858	2,453	2,973								
	10 Siyambalape	2	7,884	5,898	6,631	7,329	8,069	8,833	9,838	10,875	10,875	10,875	132	· 0	Q	0	0	1,476	2,719	3,589	4,350								
1	17 Walgama	1 1	10,935	8,239	9,264	10,239	11,273	12,341	13,743	15,192	15,192	15,192	132	C C	3,072	5,638	8,021	10,308	12,458	13,065	13,369								
	18 Yabaraliwa	L	2,481	1,861	2,092	2,312	2,546	2,707	3,104	3,431	3,431	3,431	132	0	0	0	0	0	0	515	858	0	3,072	5,636 42,534	8,021	13,938	19,145	24,045	27,65
To	otal of Biyagama P.S.		120,100	90,075	101,277	111,938	123,240	134,913	150,250	166,000	166,090	166,090		6,309	25,989	42,534	58,010	79,541	99,248	106,054	115,589	6,309	25,969		58,010		99,248	109,954	115,58
and Total			120,100	90,075	101,277	111,938	123,240	134,913	150,250	166,090	166,090	166,090	·	6,309	25,969	42,534	55,010	79,541	99,248	108,954	115,589	6,309	25,969	42,534	58,010	79,541	99,246	108,954	115,56
																1	Population S	uminary by No	xie						erved Popula				
																				·	<u>No</u>	1995	2000	2005	2010	2015	2020	2025	2030
	1 () () () () () () () () () (121		15,924	29,220		56,243		74,561	
	Projected Full Developme	ent Populat	tioл														Biyagama (in	ncl. (PZ)>			127	6,309	6,973	7,678	8,405	9,360	10,347	10,347	10,34
				1990	1995																132	0	3.072	5,636	8,021	13,938	19,146	24.045	27,65
						2000	2005	2010	2015	2020		2030								×	1	P 200	35 000	10 504	£0.040	70 5 44	00.040	400.054	
	Biyagama P.S. (excl. IPZ) Biyagama ISZ octa			90,075	101,277	111,938	123,240	134,913	150,250	166,090	166,090	166,090						···	- * * *******	Total	<i></i>	6,309	25,959	42,534	58,010	79,541	99,248	108,954	115,58

Projected Par Development Population									
	1990	1995	2000	2005	2010	2015	2020	2025	2030
Biyagama P.S.(excl. IPZ)	90,075	101,277	111,938	123,240	134,913	150,250	166,090	166,090	166,090
Biyagama IPZ only	0	0	0	0	0	0	0	0	0
Total	90,075	101,277	111,938	123,240	134,913	150,250	166,090	166,090	168,090

ation Summary by Node	Node	1		To
	No.	1995	2000	2005
	121	Ō	15,924	29,2
atna (incl. IPZ)>	127	6,309	6,973	7,6
	132	Û	3.072	5,6
Tolai		6,309	25,959	42,5

Area Far-South (Harana P.S., Bandaragama P.S., Padukka Town) Priority 1 Area (along Ratnapura Road) to be commissioned in 2000 (as Low development area) Future Expansion area (Priority 2) to be commissioned in 2010 or later. (as Low Development Area)

	Progress Percentage to	,		Year	1995	2000	2005	2010	2015	2020	2025	2030																	
	Fuli Development Dem			Priority 1	1	0%	15%	25%	33%	40%	45%	47%																	
				Priority 2		1		0%	15%	25%	33%	40%																	
				Nen Priority		1				0%	15%	25%																	
				L	<u>,</u>																								
Pradeshiya Sabha	Sub Division	Priority	1990	T		Ful De	velopment i	opulation					tioda	- <u></u>	<u> </u>	Served	Population				·····			Total Peou	ation by No	de			
-			Population	1990	1995	2000	2005	2010	2015	2020	2025	2030	No.	1995	2000	2005	2010	2015	2020	2025	2030	1995	2000	2005	2010	2015	2020	2025	24
ndaragama P.S.	1 Alubomula	2	6,742		6,250	7,410	8,607	9,848	11,149	12,494	12,494	12,494	494	. 0	0	0	0	1,672	3,123	4,123	4.995								
arl}	2 Arkugoda		6,246		5,791	6,885	7,974	9,124	10,329	11,574		11,574	494	0	. 0	0	0	0	0	1,735									
	3 Mahabelana		2,961	2,221	2,745		3,780	4,325	4,898	5,487	5,487	5,487	494	0	0	0	0	· 0	. 0	823	1,372								
	4 Mahawila	2	4,485	3,354	4,158	4,930	5,726	6,552 6,361	7,417 7,201	8,312 8,070		8,312	494	0	0	0	0	1,113	2,078	2,743	3,325								
	5 Pamunugama		4,355	3,268			5,560	5,039				8,070 8,393	494 494	0	. 0	0	0	0	0	1,210	2,017			~	-	2.011	E 0.00	43.745	
	6 Pinwala	of or ≨norr	3,450	2,587	3,198		4,404	15,907	5,795 18,008	6,393 20,180		20,180	497			2,085	3,977	856 5,943	1,598 8,072	2,110	2,557	0			u	3,641	6,800	12,745	
	7 Atulugama/Bamunumuta 8 Bandaragama		4,296	3,222	3,983	4,722	5,485	6,276	7,105	7,962	7,962	7,962	497		0	823	1,569	2,345	3,185	3,583	3,742								
	9 Panape	'	1,806	1,355	1,675		2,306	2,639	2,987	3,348		3,348	497		ň	023	1,308	2,345	3,165	502	837				-				
	10 Ranktekana		2,956	2,217	2,740		3,774	4,318	4,688	5,478		5,478	497	1 0		ň	ถ้	733	1,369	1,608	2,191								
	15 Wevita	1	3,414	2.561			4,359	4,988	5.847	6,328		6,328	497	ŏ	ŏ	ŏ	ŏ	0	0	949	1,582	0	0	2,908	5,546	9,021	12,626	15,923	
	Total of Bandaragama P.S. (Part)		51,600	2,561	47,840		65,880	75,378	85,333	95,625	95,625	95,625		0	0	2,908	5,546	12,661	19,428	28,668	34,999	0	0	2,908	5,546	12,661	19,426	28,668	
rana P.S. (part)	1 Kanewela		3,334		3,466	4,319	5,198	8,110	6,953	7,824	7,824	7,824	1000	0	0	0	Ö	0	Ó	1,174	1,956								
	2 Kutupana		3,703	2,777	3,850		5,773	6,786	7,722	8,690		8,690	1000	0	0	0	0	Ð	Q	1,304	2,173								
	3 Manugama	1	11,803	8,702			18,089	21,263	24,197	27,230	27,230	27,230	1000	0	0	0	e	0	0	4,085	6,808								
	4 Pokunuwata		1,660	1,395	1,934	2,409	2,900	3,409	3,879	4,365	4,365	4,365	1000	0	<u> </u>	0	0	0	0	655		0	0	0	0		· · · · · <u>0</u>	7,217	
	Total of Horana P.S. (Part)	<u> </u>	20,500					37,567	42,750			48,110		0	0	0	0	0	0	7,217	12,028	0	0	0	0	0	0	7,217	
swaka P.S. (Parl)	1 Anuidovatta North	2	961	732			1,308	1,412	1,641	1,878	1,878	1,878	428	0	0	. 0	e	246	459	620	751								
adukka Town)	2 Gəlagedara East	2	1,438		1,395		1,958	2,113	2,456	2,810		2,810	428	0	0	0	0	368	702	927	1,124								
	3 Paduka	2	1,853	1,412	1,797	2,328	2,523	2,723	3,164	3,620	3,620	3,620	428	0	0	U	0	475 348	905 664	1,195 877	1,448 1,063				0	1,437	2,741	3,618	
	4 Pahala Padukka Tolal of Sitawaka P.S. (Parl)	2	1,360	1,038	1,319	1,708	1.851	1,999	2,322	2,657	2,657	2,657	428		· · · ·	0	0	1 437	2,741	3,618	4,386	ä		<u>0</u>	ŏ	1.437	2,741	3,618	
IstaT bru	Totat of Stawaxa P.S. (Part)		77.712		74 596	90 318	105 480	121,193	137,665	154,700		154,700			····	2008	5.546	14.099	22.167	39,503	51,413		0	2 908	5.546		22.107	39,503	
			11,112	50,550	74,590	80,515	103,400	121,193	157,000	104,700	104,700	154,700		. L	<u>~</u>	2,000	0,010	14,000	22,107	33,505				2,000	0,010	1,000			-
												1. A. A.				7		uminary by N			1 10-30 TT			Tatal	Concerned Book				
																-	ropulation St	ominary oy N	006		Node No.	1995	2009	2005	2010	2015	2020	2025	
				1												. 7	itawaka (Po	adukka Yown)			428	<u>`````</u>				1,437	2,741	3.618	
		Orojected	Full Develor	oment Popula	tion	1												a P.S>			494	· · · · · · · · · · · · · · · · · · ·				3,641	6,800	12,745	
		Fillected	1 ou Develoj	ment Popula	uon						1.1.1										497	· · · · · · · · · · · · · · · · · · ·	······	2,908	5,546	9,021	12,626	15,923	•
		í	· · · · · · ·	1290	1895	2000	2005	2010	2015	2020	2025	2030					orana P.S	a P.S> >			1000	···· ··· .	ŭ	2,000		0		7,217	••••
		Bandaragan	ra P S	38,700	47.840		65,880	75,378	85,333	95,675		95,625				-				Total	+	0	0	2,908	5,546	14.099	22,167	39,503	• • • •
		Horana P.S.		15.375			31,960	37.567	42,750	48,110		48,110				-					·								-

Projected	Full	Development	Population

(1090	1895	2000	2005	2010	2015	2020	2025	2030
Bandaragama P.S.	38,700	47,840	56,713	65,880	75,378	85,333	95,625	95,625	95,625
Horana P.S. (part)	15,375	21,313	28,555	31,960	37,587	42,750	48,110	48,110	48,110
Silawaka P.S. (Parl)	4,275	5,443	7,050	7,640	8,248	9,583	10,965	10,965	10,985
Total	58,350	74,598	90,318	105,480	121,193	137,668	154,700	154,700	154,700

CHAPTER

4

Ref. No.4.3Subject :Water Demand ProjectionTitle :Projection of Connected Demand

Contents : Allocation of Connected Demand to GS Level

Total Demand Allocation New Service Area (Connected Demand - Development with Kalu Gunga) Revised Demand

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Service Area Category	Division	Node No.	1990	Connected 1995	Connected Water Demand (m3/d) 1995 2000 2005	and (m3/d) 2005	2010	2015	2020	2025	2030
Towns East Area	Kaduwela	281	0	0	1,775	4,138	6,630	8	13,546	16,666	18,877
	Panagoda -	402	0	0	0	0	0	0	•	0	0
	Pannipitiya	411	0	0	1,733	3,657	5,386	6,859	8,231	8,637	8,942
	Madwela/Kotte	528	•	1,905	2,349	2,722	3,097	3,501	3,926	3,959	3,983
	Madiwela/Kotte	529	0	4,435	5,485	6,374	7,263	8,218	9,222	9,303	9,363
	Maharagama	552	0	0	2,759	5,716	8,301	10,790	13,202	13,854	14,343
	(Batta. (High Zone)	563	0	0	4,180	9,743	15,609	22,075	29,058	30,493	31,570
	Batta. (Low Zone)	558	o	0	627	1,461	2,341	3,311	4,359	4,574	4,735
	Batta/Remote Zone	574	0	0	480	1,015	1.499	2,744	3,940	4,584	5,135
	Total Towns East		0	6,340	19,387	34,827	50,125	67,483	85,484	92,070	96,947
Towns South Area	Нотадата	498	0	0	1,273	2,695	3,979	6,270	8,231	10,402	12,020
		436	Ö	0	114	3,959	6, 181	8,353	10,326	11,302	11.864
		529-A	0	0	302	3,377	5,888	8,701	11,612	12,478	12,956
	Kesbewa (Piliyandala)	542	0	0	1,479	5,507	9,600	16,117	22,741	26,619	29 296
	(Kesbewa (Trom Kalatuwawa)	200	00	0 5	554	2,064	3,598	5,317	7,096	1.625	1,191/
	Potal Towns South	107		203	2 865	18 084	297.00	100.1	2,405 87 488	71 503	77 650
Towns North Area	Wattala South	122			748	8 927	11 995	16 311	20 253	922.00	2002
	Mahara South	16) c	ç	- C	0	612	1 163	3312	4 822
	Mahara North	141	0	0	260	2.068	3.547	5.138	6.562	11414	14,445
-0-1	Ragama	145	0	0	325	3,823	6,239	7.957	10,015	10,641	11,266
	Welisara, Kandana	156	0	0	513	5.821	9,543	12,312	15,355	16,405	17,319
	Ja Ela U.C.	101	o	0	492	5,325	8,848	11,636	14,717	17,307	19, 141
		165	0	0	256	2,900	4,594	5,582	6,970	8,568	9,778
	Katana P.S. (south)	166	0	0	¢	0	0	929	1,759	5,909	8, 793
-	Katunayake EP2	170	0	o	0	0	0	7,280	7,280	7,280	7,280
-	Katunayake U.C. North	174	0	0	0	0	0	0	•	85	163
		183	0			0	0	0	0	4.181	6,959
	1 otal 1 owns North		0		2,594	26,8/6	44,866	67,856	84,173	107.851	123,960
Biyagama	Biyagama (inci, EPZ)	22	e,000	7,210	6/6/6	12,745	15,532	15,832	16,165	16,165	15,1651
		ų ę	5.C	o e	1,403 F70	1 208	21012	2 250	4 653	5,844	6 722
	Total Biyagama		6.000	7.210	13.871	20.215	26.641	32,195	37.77	40,130	41 742
Area Far South	Sitawaka (Padukka Town)	428	0	0	0	0	0	413	813	1,073	1 301
	Bandaragama P.S. (West)	494	0	o	0	0	0	944	1,823	3,416	4,600
	Bandaragama P.S. (East)	497	0	0	0	714	1,394	2,338	3,385	4,268	4 781
	Torana T.G.	DDDL			0	2		0.000	2000	0/A 1	287.5
Total of New Area			8.000	13.952	41.719	100.712	152.791	217,572	275.936	322,286	354,293
Total of Existing Area Demand	Demand		343,163	415,927	443,676	483,650	531,927	549,829	566,436	575,674	581,675
[Total Day Average Demand (m3/d)	nand (m3/d)		349,163	429,879	485,395	584,362	684,718	767 401	842,372	897,961	935,968
Totat Daily Peak Dema		Peakt II	401 537	494 361	558,204	672.016	787.426	882.511	968.727	1.032.655	1.076.363
Treatment Plant Capacity	sitv	Max		-							
	Ambatale (Old)	63 mgd	286,700	286,700	286,700	286,700	286,700	286,700	286,700	286,700	286,700
	Ambatale (New)	40 mgd		182,000	182,000	182,000	182,000	182,000	182,000	182,000	182,000
	Kalatuwawa (Max. X 90%)			81,900 52,500	81,800	81,900	81,900	81,900	01,400 60 700	81,800	000 63
	uabuganina (wax, x ≎∪7o) Horana	0.22 mod		20,200	002.50	002120	1 500	1500	1500	1500	1 500
Reowired =:	Required => Additional Source	2011		000°.	0	66.800 L	182.000	277.000	364.000	427.000	471.000
			•	•		(14.7mgd)	(40.0mgd)	(60.9mgd)	(80.0mgd)	(53.8mgd)	(103.5mgd)
	Total Capacity		605,300	605,300	605,300	672,100	787,300	882,300	969,300	1,032,300	1,076,300

Progress Percentage to	je to	Area	1990	1995	2000	2005	2010	2015	2020	2025	2030
Fuil Development Demand	lemand	Colombo M.C.	š	100	<u>8</u>	<u>8</u>	8	<u>5</u>	<u>6</u>	5	<u>8</u>
-	:	Dehwela-Mt.Lavinia M.	×06	100	<u>6</u>	8	100	6	00	6	100
		Kotte U.C.	× 86	100	19	8	10 0	100	5	<u>6</u>	100
		Kolonnawa U.C.	206 80	100	<u>1</u>	, 0	100	<u>1</u> 00	100	<u>5</u>	100
		Moratuwa U.C.	72	81.	85	87	8	8	8	8	100
		Kotti/Mulleriyawa P.S.	35	8	75	8	9 2	95	9 2	6	100
		Peliyagoda U.C.	45	8	22	8	85	88	8	95 25	001
		Wattala Mabole U.C.	च	60	02	80	85	88	8	8	6
		Kelaniya P.S.	45	8	20	8	85	88	05	ß	100
		Panadura U.C.	×08	100	5	100	10 10	100	100	100	100
		Horana U.C.	65	75	82	86	8	8	8	8	90
land Data from Fik	Demand Data from File C:\Kalu-fs\Demands\Revised\New_rev.wk4	w_rev.wk4	·						•	·	
	 Service Area 				Full De	velopment V	Vater Demai	uli Development Water Demand (m3/d)			
				1995	2000	2005	2010	2015	2020	2025	2030
	1. Colombo M.C.			220,605	230,585	249,467	269,628	, 273,635		278,181	278,181
	2 👒 Denweta-Mt.Lavinta M.C.			54,972	60,133 21,025	63,302	609'99'	67,822		69,084	69,084
	s kolenceus II C			414'05 979'0	20,000	41,/80	46,014	48,644		51,215	51215
				0100	0	070'7I	007'41	10,400		07/01	
•	6 Kotti/Mullerivawa P.S.			18 198	24 187	26,556	20122			40,044 37,754	40 044 30 754
	7 Peliyagoda U.C.			8,410	10,261	10 744	11.248	11,423		11.610	11.610
				5,866	8,080	9,138	10,223	11,040		11,840	11,840
				23,576	33,243	39,070	45,210	46,416		47,718	47,718
			•	6,540 2,264	7,407	7,969	8,562	8,970	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	9,395	9,395
Grand Total				415,027	461 840	0,023 F/13 72/1	5,010 5,100	4,204 ERA 875		507 157	4,/33 E07 154
-1				192011	2+5-10+	N 200	1010	0.0.000	1	100	1401.200
			,	÷							
L	Service Area					Conner	Connected Water E	Demand (m3/d)	d)		
				1995	2000	2005		2015	2020	2025	2030
				220,605	230,585	249,467	269,628	273,635	277,581	278,181	278,181
	2 Uentwela-Mit.Lavinia M.C.			54,972	80,133 27,233	63,302 54 705	96,609 26,609	67,822	80 08 t	69,084	89,084 7,7
					000 / 2		40,014	440,044		CL7'LC	
	A Morative IIO			0,040 0,040 0,000	011,114 00,8206	220,21	007,47 001.06	10,400	10//01	16,720	107/101
	6 Kotti/Mullerivawa P.S.			18.198	21.049	23,900	27,719	29,343	31,116	32,754	3 22
			•	8,410	8,503	8 595	9.561	10.053	10.449	11,030	11.610
				5,866	6,588	7,310	8,690	9,715	10,656	11,248	11,840
		-		23,576	27,416	31,256	38,429	40,846	41,946	45,332	47 718
	10 Panadura U.C.			6,540	7,407	7,969	8,562	8,970	9,395	9'385	9,395
				1977	2,3/4	2,863	3,360	3,855	4,314	4.314	4.314
	i otal			415,827	443,676	483,650	531,927	549,829	566,436	5/5.674	581 6751

Demand Allocation (Existing Service Area) Existing Service Area (Connected Demand - Development with Kalu Ganga)

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Directory C:Watu-Is/Domands/Revised File: Phas_Kat.vk4

Demand Allocation from PS Level to GS Division Level (1) New Service Area (Connected Demand - Development with Kalu Ganga) Towns East Project area (Priority 1) to be Commissioned in 1996. Future Expansion area (Priority 2) to be commissioned in 2010 or later. (as Low Development Area) Non-Priority area not to be commissioned before 2020.

Progress Percentage to	
Full Development Demand	

Year	1995	2000	2005	2010	2015	2020	2025	2030
Putorky 1	0%	25%	47%	62%	73%	81%	85%	85%
Priority 2				0%	15%	25%	33%	40%
Non Priority						0%	15%	25%

Demand Data from File C:\Kalu-Is\Demands\Revised\New_rev.wk4

Pradeshiya Sabha	Sub Division	Pricrity	1990	[Ful De	velopment V	Vater Demar	id (m3/d)	······································			Node	1				Demand (m3						Total Day A	verage D
			Population	1990	1995	2000	2005	2010	2015	2020	2025	2030	No.	1995	2000	2005	2010	2015	2020	2025	2030	1995	2000	2005	2010
Keduwela P.S.	1 Newagemuwa	2	3,808	561	757	977	1,211	1,471	1,767	2,096	2,096	2,096		0) 0	0	0	265	524	692	838				
	2 Ihala Borninya	2	4,939	728	S 82	1,267	1,571	1,908	2,292	2,719	2,719	2,719	281	0) U	0	0	344	680	897	1,088				
	3 Renale		2,264	334	450	581	720	875	1,051	1,246	1,246	1,246	261			0	0	0	.0	187	312				
t i i i i i i i i i i i i i i i i i i i	4 Pahala Bonxinya*		4,425	652	880	1,135	1,407	1,709	2,053 2,865	2,436 3,399	2,436 3,399	2,436 3,399	281) 396	923	1,479	2.000	0	365	609				
	5 Hewagama 6 Kotelawala	1 1		910	1,227	1,584	1,964	2,385	2,060	3,399	3,349	3,399	281) 390	815	1,306	2,091 1,847	2,753	2,889	2,991 2,642				
	7 Wešweta*		5,454 6,483	804 955	1,084 1,289	1,399 1,663	1,735 2,062	2,107 2,504	3,008	3,569	3,569	3,569	281	Ň	416	969	1,553	2,196	2,432 2,691	2,552	3,140				
	8 Malambe*		9,570	1,410	1,200	2,455	3.044	3.697	4,441	5,268	5,268	5,268	281	· ň	614	1,431	2,292	3,242	4,267	3,033 4,478	4,636				
	9 Pore (Parl North)	1 1	3,859	569	767	2,400	1,227	1,491	1,791	2,124	2,124	2,124	281	l ő		0	1,207	5,242	9,201	319	531				
	10 Dedigamiwa		6,035	698	1.212	1.564	1.939	2,355	2,823	3,358	3,356	3,356	281	l õ	ŏ	ň	Ň	ň	Ň	503	839				
	11 Onwala/Korakota	1	9,096	1,340	1,808	2,333	2,893	3,514	4,220	5,007	5.007	5.007	281	l õ	ŏ	õ	ň	ň	ŏ	751	1,252	0	1,775	4,138	6,63
	12 Aluquitya		10,331	1,522	2,054	2,650	3,265	3,991	4,794	5,637	5,687	5 687	498	l i i i i i i i i i i i i i i i i i i i	0	Ď	Ď	····· č	····· Å	853	1,422	· · · ·	1,115	4,150	0.00
	13 Pore (Part South)	1	3,659	569	767	990	1,227	1,491	1,791	2,124	2,124	2,124	498	l ó	, Ö	Ō	ő	ŏ	ភ័	319	531	0	0	0	
	14 Tatahena*	1 1	4,373	644	869	1,122	1,391	1,689	2,029	2,407	2,407	2,407	563	0	260	654	1,047	1.481	1,950	2.046	2,118		v	. •	
	15 Telanoama S.*		19,553	2,881	3,887	5,016	6,219	7.553	9,072	10,763	10,763	10,763	583	1 0	1,254	2,973	4,683	6,623	8,718	9,148	9,471				
	16 Talangama N.*	1 1	17,013	2,507	3,382	4,364	5,411	6,572	7,894	9,365	9,365	9,365	563	0	1,091	2,543	4,075	5,763	7,566	7,960	8,241				
	17 Batteramuda*	1	24,234	3,571	4,817	6,217	7,708	9,362	11,245	13,340	13,340	13,340	583	0	1,554	3,623	5,804	8,209	10,805	11,339	11,739	0	4,180	9,743	15,609
	18 Kalepaliwawa*	1	9,776	1,440	1,943	2,508	3,109	3,776	4,536	5,381	5,381	5,381	568	0	627	1,461	2 341	3,311	4,359	4,574	4,735	0	627	1,461	2,34
	19 Hokandara S.	2	6,920	1,020	1,376	1,775	2,201	2,673	3,211	3,809	3,809	3,809	574	[0	0	0	0	482	952	1,257	1 524				
	20 Hokandara N.	2	5,171	762	1,028	1,326	1,645	1,993	2,399	2,846	2,846	2,846	574	0	0	0	0	360	712	939	1,139	0	0	0	(
	Total of Kaduwela P.S.		163,400	24,077	32,460	41,916	51,971	63,120	75,816	69,943	89,943	89,943		0	6,582	15,342	24,580	36,213	49,627	55,101	59,797	0	6,582	15,342	24,586
Maharagama P.S	1 Meciwela (Exis.)	Exis.	12,496	1,686	1,905	2,210	2,436	2,682	2,961	3,265	3,265	3,265	528	1,905	2,210	2,435	2,682	2,961	3,265	3,265	3 265	1,905	2,210	2,438	2,68
	2 Gangodawila (Exis.)	Exis.	12,778	1,724	1,948	2,260	2,491	2,742	3,027	3,339	3,339	3,339	529	1,948		2,491	2,742	3,027	3,339	3,339	3,339				
	3 Udahamuta (Exis.) Total (Existing Area)	Exis.	16,315 41,590	2,201 5.610	2,487	2,886	3,181	3,501	3,865	4,263	4,263	4,263	529	2,487	2,886	3,181	3,501	3,865	4,263	4,263	4,263	4,435	5,146	5,672	6,243
	4 Panipitiya		5,539	747	844	980	1,080	1,189	1,312	10,866	1,447	1,147	411		7,357 245	8,108 508	8.925 737	9,854 958	10,666	10,866	10,866	6,340	7,357	8,108	8,92
	5 Madiwela*	••••••••••••••••••••••••••••••••••••••	3,124	421	476	553	609	670	740	816	816	816	528	ŀ	138	286	416	540	1,172	1,230	718	· · · · · · · · · · · · · · · · · · ·	245 138	508 286	737
	6 Thatapathipitiye		7,661	1,033	1,168	1,355	1,494	1,644	1,615	2,002	2,002	2,002	529	i i i i i i i i i i i i i i i i i i i	339	702	1,019	1,325	1,621	1,701	1,761	···· · · · · · · · · · · · · · · · · ·	339	702	1 019
	7 Nawina'	[]]	12,067	1,628	1.840	2,135	2,353	2,590	2,859	3,153	3,153	3,153	552	l	534	1,106	1,606	2,087	2,554	2,680	2,774	· · · · · ·	339	102	1.018
	8 Potwatte/Depanama*	i	5,854	790	892	1,036	1,141	1,256	1,367	1,529	1,529	1,529	552	l ŏ	259	535	779	1,012	1,239	1,300	1.348				
	9 Pamunuwa*	i	2,973	401	453	526	580	638	704	777	777	777	552	i o	131	272	396	514	629	660	684				
	10 Maharapama*	i	19,492	2,629	2,971	3,448	3,800	4,183	4,618	5,093	5,093	5,093	552	Ō	862	1,786	2,593	3,371	4,125	4,329	4,481				
	11 Godigamuwa S.*	1	8,508	1,148	1,297	1,505	1,659	1.826	2,016	2,223	2,223	2,223	552	l ó	376	780	1,132	1,472	1.801	1,889	1,956				
	12 Godicemuwa N.	1 1	13,491	1,820	2,057	2,386	2,630	2,895	3,195	3,525	3,525	3.525	552	l o	597	1,236	1,795	2,333	2.855	2,996	3,102	0	2,759	5.716	A 301
	Total (New Service Area)	·	78,710	10,618	11,999	13,923	15,345	16,891	18,648	20,564	20,554	3,525 20,564		0	3,481	7,212	10,473	13,613	16.657	17,480	18,097	ŏ	3,481	7.212	8,301
	Total of Maharagama P.S.	I	120,300	16,228	18,339	21,280	23,453	25,816	28,502	31,430	31,430	31,430		6,340	10,838	15,320	19 398	23,467	27,523	28,346	28,963	6,340	10,839	15,320	19,395
Hornagama P.S	1 Panagoda East	1	3,568	939	1,052	1,211	1.363	1,525	1,645	1,773	1,773	1,773	402	0	0	0	õ	0	ò	286	443			an an an Ara an	
	2 Meriapala*	1 1	2,279	600	672	773	871	974	1,050	1,132	1,132	1,132	411	0	193	409	604	767	917	963	997				• •
	3 Kottawa*	1 1	10,399	2,736	3,067	3,529	3,973	4,446	4,793	5,167	5,167	5,167	411	0	882	1,867	2,756	3,499	4,185	4.392	4,547				
	4 Rukumaie*		3.748	986	1,105	1,272	1,432	1,602	1,728	1,862	1,862	1.862	411	0	318	673	994	1,261	1,509	1,583	1,639				
	5 Markumbura (Pannipitiya)*		1,112	293	328	377	425	476	513	553	553	553	411	0	94	200	295	374	448	470	485	0	1,488	3.149	4,649
	6 Godagama	2	1,955	514	577	663	747	835	901	972	972	972	498	0	0	0	0	135	243	321	389				
	7 Habarekada	2	3,951	1,040	1,165	1.341	1.509	1,689	1,821	1,963	1,963	1,963	498	0	0	0	. 0	273	491	648	785				
	8 Hiripitiya		3,186	838	940	1,081	1,217	1,362	1,469	1,583	1,583	1,583	498	0	270	572	845	1,072	1,282	1,346	1,393				
	9 Homagama		10,713	2,819	3,160	3,535	4,093	4,580	4,938	5,323	5,323	5,323	498	0	909	1,924	2,840	3,605	4,312	4,525	4.684				
	10 Markumbura (Homagama)*		1,112	293	328	377	425	476	513	553	553	\$53	498	0	94	200	295	374	448	470	486				
	11 Panagoda West	2	7,332	1,929	2,162	2,488	2,801	3,134	3,379	3,643	3,643	3,643	495	0	0	0	0	507	911	1,202	1,457	_			
	12 Pilipana North 13 Thalawathuqoda	San Samuel	4,389	1,155	1,294	1.489	1.677	1 878	2,023	2,180	2,180	2,180	495	0			0	303	545	720	872	0	1,273	2,695	3,979
				1,149 339	1,288	1,481 437	1,668	1.855	2,012 594	2,169 640	2,169	2,169 640	574	O O	370	784	1,157 342	1,469	1,757	1,844	1,909	~			·
	14 Kslalgoda Total of Homsgama P.S.	<u>'</u>	1,289	15 630	380	20,156	22,693	551 25,394	27.378	29,514	29,514	29,514	574	v	109	<u>231</u> 6,860	10,127	434	519 17 565	<u>541</u> 19,291	20,651		3.241	1.015	1,499
akot bnark	Total of Frombydana P.o.	<u> </u>	343,1001	55,935	68,339	83.352	98,116	25,394	131.695	150,887	29,514	150,887	~]	5.340	20.651	37.522	54,104	73,753		19,291				6,860	10,127
ABIN 10(E)	l	ل	343,1001	20,935	00,333	03,332	30,110	:14,331	131,099	100,001	100,007	100,007		0,340	20,001	31,322	. 04,104	13,133	93,715	102/38	109 410	6,340	20,661	37,522	54,10

2030 89,943 31,430 29,514 150,887

Projected Fut Development Demand (m3/d) from New-area.wk4 Rodeweia P.S. 1990 1995 2005 2010 2025 Kaduweia P.S. 1990 1995 2005 2016 2025 Kaduweia P.S. 1977 324077 32407 32407 325816 29,543 89,943 Maharegama P.S. 15,630 17,520 20,156 22,631 29,514 29,514 29,514 29,514 29,514 29,514 29,514 29,514 29,514 20,687 50,887 Torin 15,530 7,520 20,156 22,630 21,378 29,514 29,514 29,514 29,514 20,514 20,567 20,807 50,887 50,887 50,887 5

Node Demand Summary	Node			Tolal D	ay Ave
	No.	1995	2000	2005	2010
Kaduwela>	281		1,775	4,138	6
Panagoda>	402	0	0	0	
Pannipiliya (Yowns East Project Area)	411	0	1,733	3,657	5,
Homagama (Towns South Project Area)	498	0	1,273	2,695	3
Madiwela/Kolte>	528	1,905	2.349	2,722	3,
Mactwela/Kotte>	529	4,435	5,485	6,374	7,
Total of Madrwela/Kotte (Towns East Area)		6,340	7,834	9,096	10,
Maharagama (Maharagama Project)	552	0	2,759	5,716	8.
Towns East Battaramuka Area					
Batte, (High Zone)>	563	0	4,180	9,743	15,
Batta, (Low Zone)>	568	0	627	1.461	2.
Batta/Remote Zona ->	574	0	480	1,015	1.
Total Battaramula (563/568/574)		0	5,286	12,219	19,
Totai		6,340	20,661	37,522	54,

	and 5y Nod			C
2010	2015	2020	2025	2030
6,630	9,985	13,546	16,666	18,877
0	0	0	1,172	1,953
				i
15,609	22.075	29,058	30,493	31,570
2,341	3,311	4,359	4,574	4,735
0	040	1 000	2 400	2000
24,580	842 35,213	1,664	2,195	2,662
2,632	2.961	48,627 3,265	2,196 55,101 3,285	2,662 59,797 3,265
c.002	2,301	7,202	3,205	3,203
6,243	6,893	7 601	7,601	7 601
8 925	9.854	10 866	10.866	10.666
737	9,854 958	1.172	10,866 1,230	1.274
416	540	7,601 10,866 1,172 861	694	7,601 10,866 1,274 718
1,019	1,325	1,621	1,701	1,761
				1
			+	1
8,301	10,790	13,202	13,854	14,343
10,473 19,398	13,613 23,467	16,657	- 17,460 28,345	18,097 28,963
19,398	23,467	27,523	28,345	28,963
• • ·				i.]
				1
4,649	6 601	7,059	7,407	7 000
4,049	5,901	1,059	1,401	7,669
				1
3,979	5,270	8,231	9,230	10,067
1,499	1,902	2,278	2,388	2,472
1,499 10,127 54,104	14,073 73,753	2,278 17,565 93,715	19,025 102,472	2,472 20,203 108,967
54,104	73,753	93,715	102,472	108,967
				ann atara ana
				·
	Demand (m3/			
2010	2015	2020	2025	2030
6,630	9,985	13,546	16,656	18,877
0	0	0	0	0
5,386	6,859	8,231	8,637	8,942
3,979	6,270	8,231	10,402	12.020
3,097	2 601	3,926	3,959	3 061
7,263	3,501 8,218			3,983 9,363
10,360	11,719	9,222	9,303	
10,500		13,140	12,201	13,346
8,301	10,790	13,202	13,854	14,343
				11,010
15,609	22,075	29,058	30,493	31,570
2,341	22,075 3,311	4,359	4,574	4,735
1,499	2.744	3,940	4,584	5,135
19,449	28,130	37,356	39,652	41,439
· · · · · · · · · · · · · · · · · · ·				
54,104	73,753	93,715	102,472	108,967

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Directory File: C:Walu-fs/Demands/Revised Phas_Kal-wk4

Demand Allocation from PS Level to GS Division Level (2) New Service Area (Connected Demand - Development with Kalu Ganga) Towns South Project area (Priority 1) to be Commissioned in 1998. Future Expansion area (Priority 2) to be commissioned in 2010 or later. (as Low Development Area) Non-Priority area not to be commissioned before 2020.

Progress Percentage to
Full Development Demand

Year	1995	2000	2005	2010	2015	2020	2025	2030
Priority 1	0%	13%	39%	56%	69%	78%	84%	87%
Priority 2				0%	15%	25%	33%	40%
Non Priority						0%6	15%	25%

Demand Data from File C:%Kakufs\Demands\RevisedWew_rev.wk4

Predeshiya Sabha	Sub Division	Priority	1990				velopment Wa					No	da			Connec	ted Water De	mand (m3/d)					Total Day Av	erage Deman	d by Node (r	n3/d)		
			Population	1990	1995	2000	2005	2010	2015	2020	2025	2030 No	o 1	1995	2000	2005	2010	2015	2020	2025	2030	1995	2000	2005	2010	2015	2020	2025	2030
Kesbewa P.S.	1 Pepilyana (Exis.)	1	15,661	2,028	2,533	3,208	3,983	4,836	5,800	6,865	6,865	6,665 529		0	417	1,553	2,708	4,002	5,341	5,739	5,959								
	2 Boralesgamuwa		18,624	2,382	2.975	3,767	4.677	5,678	6,810	8,061	8,061	8,061 529			490	1,824	3,180	4,699	6,271	6,739	6,997	0	907	3,377	5,888	8,701	11,612	12,478	12,956
	3 Kaluwawala	1	6,681	854	1,067	1,351	1,678	2,037	2,443	2,892	2,892	2,892 54		0	176	654	1,141	1,686	2,250	2,417	2,510	-							
	4 Werahere	2	5,294	677 837	646	1.071	1,329	1.614	1,936	2,291	2,291	2,291 54		0	139	518	904	1,336	1,783	1,915	1,989								
	5 Bataxettara	2	6,548		1,046 387	1,324	1,644	1,996	2,394	2,834	2,834	2,834 54		0	0	0	0	359	708	935	1.134								
	6 Batuwandara 7 Bokundara		2,421 5,650	310 722	387	490	1,419	738	885 2,066	1,048 2,445	1,048 2,445	1,048 54		0	0	0	0	0	0	157	262								
	8 Dampe	1	2.604	333	416	1,143 527	654	794	2,005	2,445	1,127	1,127 54		0	149	553	965	1,426	1,902	2,044	2,123		•						
	9 Dežara		3,385	433	541	685	850	1.032	1,238	1,465	1,465	1,465 54		U O	0	U	0	0	0	189	282								
	10 Gorakepitiya		3,445	441	550	697	665	1,052	1,260	1,492	1,492	1,492 54		0	0	, v	Ů,	0	0	220	366								
	11 Habita	2	7,877	1.007	1,258	1,593	1,978	2,402	2,891	3.410	3,410	3,410 54			0	U 0	0	189 432	373	492	597								
	12 Hedigama	1	5,852	748	935	1,184	1,470	1.784	2,140	2,533	2,533	2,533 54		ň	154	573	\$999	1.476	852 1.971	1,125	1,364								
	13 Hornatera	ż	5,108	653	816	1.033	1,283	1,557	1.855	2,211	2,211	2,211 542		õ	1.51		355	280	553	730	2,198								
	14 Jumbižreliya	-	2,334	298	373	472	586	712	853	1,010	1,010	1,010 54		å	ő	ŏ	ň	128	253	333	404								
	15 Kahapota		5.360	685	856	1.084	1.346	1.634	1,960	2,320	2.320	2,320 54		ŏ	ŏ	ŏ	ň	120	233	348	580								
	16 Kesbewa	1	10,597	1,355	1,692	2,143	2,661	3.231	3 875	4,586	4.586	4,585 542		ů.	279	1,035	1.809	2,674	3,568	3,834	3,981								
	17 Madapatha		5,467	699	873	1,106	1,373	1,667	1,999	2,366	2,386	2,366 542		Ū.	0	0	0	0	0	355	592								
	18 Makendara	2	6.843	875	1,093	1,384	1,718	2,086	2,502	2,962	2,962	2,962 543		Ö	ō	Ō	õ	375	740	977	1,185								
	19 Matuduwa	1	3,645	466	582	737	915	1.111	1,333	1.578	1,578	1.578 542		0	96	357	622	929	1,227	1,319	1,369								
	20 Mampe	1	10,003	1,279	1,598	2,023	2,512	3,050	3,658	4,330	4,330	4,330 542	2	0	263	980	1,708	2,524	3,368	3,619	3,758								
	21 Mewittera	2	3,020	386	482	611	756	921	1,104	1,307	1,307	1,307 542	2	0	0	0	0	166	327	431	523								
	22 Suwarapola	1 1	4,148	530	663	839	1,042	1,265	1,517	1,795	1,795	1,795 542	2	0	109	406	708	1,047	1,397	1,501	1,558				+				
	23 Thumbowila	1	4,361	558	696	882	1,095	1,329	1,595	1,887	1,887	1,887 542		0	115	427	744	1,100	1,468	1,578	1,638	0	1,479	5,507	9,600	16,117	22,741	26,619	29,296
	24 Erewala East	1	10,666	1,364	1,704	2,157	2 679	3,252	3,900	4,616	4,616	4,616 557		0	280	1,045	1,821	2,691	3,592	3,859	4,007								
	25 Erewsia West	1	4,766	. 509	761	964	1,197	1,453	1,743	2,063	2,063	2,063 552		0	125	467	814	1,203	1,605	1,725	1,791								
	26 Pelenvatla	1	5,640	721	901	1,141	1,416	1,720	2,063	2,441	2,441	2,441 557	2	0	148	552	953	1,423	1,899	2,041	2,119	0	554	2,064	3,598	5,317	7,096	7,625	7,917
	Total of Kesbewa P.S.		166,200	21,253	26,546	33,618	41,737	50,670	60,774	71,935	71,935	71,935		<u> </u>	2,940	10,948	19,035	30,135	41,449	46,722	50,169	0	2,940	10,948	19,085	30,135	41,449	46,722	50,169
Panadura P.S. (Parl)	1 Dibbeda 2 Kaludewala	Z .	3,929 6,925	508 892	535 943	585 1.031	636	691	758 1.337	831	831	831 494	· .	0	0	0	, v	114 200	208	274	333								
	3 Malamuta	2	5.000	. 773	817	893	1,121 971	1,219	1,150	1,465 1,270	1,455	1,465 494		, v	0	š	0	174	366	484	586								
	4 Pirwalta (Exis. Area)	(Exis.)	2,955	381	403	440	478	520	570	625	625	625 494		403	440	476	520	570	317 625	419 625	508 625								
	5 Walsoola	2	4,239	546	577	631	686	746	818	897	897	897 494		405	140	1,0	310	123	224	296	359								
	6 Wekada		14,018	1,805	1,909	2.086	2,269	2,467	2,705	2,966	2,966	2,956 494		ă.	ň	ŏ	ő	406	742	979	1,186	403	440	478	520	1.587	2.483	3,077	3,597
	7 Gorakana	· · · · · · ·	4.517	582	615	672	731	795	872	956	956	956 496			87	265	445	602	744	799	830	405	. 440	. 410	520	1,367	2,40.5	3,017	3,397
	8 Gorakapola		6.564	846	894	977	1.062	1 155	1,267	1,389	1.359	1,359 496		õ	127	414	647	874	1.081	1,161	1,206								
	9 Hirana/Galude		6,509	839	887	959	1,053	1,145	1,256	1.377	1.377	1,377 496		0	· 0	0	0	0	0	207	344								
	to Horeluduwa	1 1	7,519	969	1,024	1,119	1,217	1,323	1,451	1,591	1,591	1,591 496		ŏ	145	475	741	1.001	1,238	1,330	1,381								
	11 Keselwatta	1 1	11,319	1,458	1,542	1,685	1,832	1,992	2,185	2,395	2,395	2,395 496		ō	219	714	1,115	1,507	1.863	2,002	2,079								
	12 Sarikksmuža	1 1	7,051	908	960	1,049	1,141	1,241	1,361	1,492	1,492	1,492 496	;	0	136	445	695	939	1,161	1,247	1,295								
	13 Tantielmuža	1	5,161	665	703	768	835	908	996	1,092	1,092	1,092 496	5	0	100	326	509	687	850	913	946								
	14 Tholawalla	1	8,408	1,083	1,145	1,251	1,361	1,479	1,623	1,779	1,779	1,779 496		0	163	531	828	1,120	1,384	1,487	1,544								
	15 Walana	1	12,185	1,570	1,660	1,814	1,972	2,144	2,352	2,578	2,578	2,578 496		0	236	769	1,201	1,823	2,006	2.155	2,238	0	1,214	3,959	6,181	8,353	10,326	11,302	11,864
	Total of Panadura P.S.		107,300	13,624	14,616	15,970	17,366	18,881	20,708	22,704	22,704	22,704		403	1,653	4,437	6,701	9,939	12,808	14,379	15,461	403	1,653	4,437	6,701	9,939	12,803	14,379	15,461
irand Tolai			273,500	35,071	41,161	49,589	59,103	69,550	81 482	94,630	94,639	94,639		403	4,593	15,386	25,786	40,074	54,257	61,101	65,6301	403	4,593	15,386	25,786	40,074	54,257	61,101	65,630
																		·			·			·					
								•								N	lode Demand	Summary		Ì	Node		Average Den						
			Orelanded Evil O	avelopment D	mand (m2ld	0														·	No.	1995	2000	2005		2015		2025	2030
			Projected Full D from New-area.		uniana (mb/o			1									anadura P.S.				494	403	440	478	520	1,587	2,483	3,077	3,597
			non new alea.														anadura (Kes				496	U	1,214 907	3,959	6,181	8,353	10,326	11,302	11.664
		(····	1990	1995	2000	2005	2010	2015	2020	2025	2030]					esbewa (Exis esbewa (Piliy			1	529-A 542	U C			5,888	8,701	11,612	12,478	12,956
		Kesbewa P.a	s	21.253	26,545	33,618	41,737	50,670	60,774	71,935	71,935	71,935					espewa (Pay esbewa (from					U C	1,479 554	5,507	9,600 3,598	16,117	22,741	26,619	29,296
		Panadura P.		13.824	14.616	15.970	17.365	18.881	20,708	22,704	22,704	22,704				<u>r</u>	Social (101)	nd divide	a pix()	···· · · · · · · · · · · · · · · · · ·	552	· · · · · · · · · · ·	339	2,064	3,339	5,317	7,096	7,625	7,917
			Totel	35.077	41,161	49,589	59,103	69,550	81,482	94,539	94,639	94,639								Total		403	4,593	15,386	25,786	40,074	54,257	61,101	65,630
											~	04,000									1	10,0	4,333				J4,2J1	91,101	

Projected Full Development De	mand (m3/d)
from New-area.wk4	

Node Demand Summary	Node	Total Day	Average Der	nand (m
	No.	1995	2000	2005
Panadura P.S>	494	403	440	
Panadura (Kesetwatta)>	496	0	1,214	3.
Kesbewa (Exis, Maharagama)>	529-A	0	907	3.3
Kesbewa (Piliyandala)>	542	Ó	1,479	5,
Kesbewa (from Kalatuwawa Ine)>	552	<u> </u>	554	2.
Total		403	4,593	15.
1				
	1 1			

	1990	1995	2000	2005	2010	2015	2020	2025	2030
sbewa P.S.	21,253	26,545	33,618	41,737	50,670	60,774	71,935	71,935	71,935
nadura P.S.	13,824	14,616		17,365			22,704	22,704	22,704
Totel	35.077	41,161	49,589	59,103	69,550	81,482	94,539	94,639	94,639

C:\Kaki-fs\Demands\Revised Phas_Kal.wk4 Directory File:

Demand Allocation from PS Level to GS Division Level (3) New Service Area (Connected Demand - Development with Kalu Ganga) Towns North Project area (Priority 1-A) to be Commissioned in 1999 (as Urgent Development Area) Priority 1-B Area to be commissioned in 1999 (as High development area) Priority 2 Area to be commissioned in 2010 (as High development area) Non-Priority area not to be commissioned before 2020.

Year	1995	2000	2005	2010	2015	2020	2025
Priority 1-A		5%	50%	70%	75%	80%	85%
Priority 1-B		5%	35%	53%	67%	75%	83%
Priority 2				0%	15%	25%	33%
Non Priority						0%	15%

Demand Data from File C:\Kak-Is\Demands\RevisedWew_rev.wk4

Progress Percentage to Full Development Demand

Pradeshiya Sabha	Sub Division	Priority	1990					Vater Demar		2020	2025	2030	Node No.	1995	2000	2005	2010	Demand (m3/ 2015	d) 2020	2025	2030	1995	2000	Total Day Av 2005	veraç 20
Ja Els P.S.	1 Wašpola	<u> </u>	Population 10.368	1990 1,693	1995	2000	2005	2010	2015	4,653	4,683	4,683			5 7 7	5 0	Ő	5	0	702	1,171		nationizini e Diyonia donisi a		
Ja ca P.o.	2 Baluwatta		17 232	2,815	3,370	4,049	4,755	5,543	6,598	7,785	7,785	7,785	141) () 325) 0 5 3,823	6,239	7,957	0 10,015	1,165	1,946		0 32	0 0 5 3,823	
	3 Ragama	1-A	27,703	4,526	5,418	6,510	7,846	8,912	10,609	12,518	12,518 3,943	12,518	145	1 · · · · · · ·			1,965	2.506	3,154	3,351	3,549		• •	u 0,040	
	4 Nagoda 5 Rilaula	1-A 1-A	8,727	1,425 575	1,707	2,050	2,403	2,807	3,341 1,347	1,589	1,589	1,589	158	1			792	1,010	1,271	1,351	1,430				
	6 Kandana	1-A	10,504	1,716	2,054	2,468	2.899	3,379	4,022	4,748	4,746	4,748	158	} i			2,365	3,016	3,797	4,034	4,271				
	7 Nedurupitiya	1-B	8,033	985	1,180	1,417	1,665	1,940	2,310	2,725	2,725	2,725	158		<u>, 71</u>		1,028	1,548	2,044	2,262	2,344		0 33	8 3,722	
. 1	8 Thudela (Pait)	1-A	3,529	576	690	829	974	1,135	1,351	1,595	1,595	1,595	161 161		j 41	487 > 0	795	1,013	1,278	1,355	1,435 1,010				
	9 Newandama		8,046	1,461	1,749	2,102	2,469	2,877	3,425 1,323	4,042 1,561	4,042	1.581	161) (1) (1		778	992	1,248	1.327	1,405				
	10 Kudahakapola	1.4	3,454 8,646	564 1,086	675 1,300	812 1.562	953 1.834	1,111 2,138	2,545	3,003	3,003	3.003	161				Ű	õ	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	450	751				
	11 Kurunduwatta 12 Kanuwana	1-B	4,618	754	903	1.085	1,274	1,485	1,769	2,036	2,086	2,086	161	1	54	446	787	1,185	1,565	1,732	1,794				
	13 Ekala		5 648	922	1,104	1,327	1,559	1,817	2,162	2,552	2,552	2,552	161) (0	0	0	383	638				
	14 Balagama	1-B	6,755	1,103	1,321	1,587	1,884	2,173	2,556	3,052	3,052	3,052 2,899	161 165) 76) 78		1,152	1,733	2,289	2,533	2,625		0 21 0 7		
	15 Dandugama	1-A	6,416	1,048	1,255	1,507	1,771	2,064	2,457	2,899	2,899	2,699	100				17,345	22,602	28,978	34,359	38,244		0 95		
Ja Ela U.C.	Total of Ja Ela P.S.	1-A	130,100 33,000	21,250 3,779	25,441 4,580	30,568	35,902	7,624	8,951	10,424	10,424	10,424	161	<u> </u>	277		5,337	6,713	8,339	8,830	9,381	†	0 27		
Ja Era D.C. Kalana P.S. (Parl)	1 Alawatupitiya	1·A	2,049	1.005	1,130	1,305	1,459	1,629	1,853	2,105	2,105	2,105	165	·	65		1,140	1,390	1,684	1,789	1,694				
Rate at 1,0. treath	2 Udammita (Ekata IPZ)	1-A	3,612	1,771	1,993	2,301	2,571	2,871	3,266	3,719	3,710	3,710	165				2,009		2,968	3,153	3,339		0 18	0 2,015	
	3 Amandukiwa	2	2,192	1,075	1,209	1,397	1,531	1,743	1,983	2,252	2,252	2,252	168) ()) ()	0	297	563 0	743 2.402	901 4.003				
	4 Ganepola		15,589	7,643	8,600	9,931	11,097	12,389 773	14,098 879	18,011 999	16,011 999	16,011 999	166 166			, <u>,</u>	0	0	ő	150	250				
	5 Kolugoda		972 2,058	477 1.023	538 1,151	619 1,329	892 1,485	1,658	1,887	2,143	2,143	2,143	166		í Ì	ý õ	ŏ	ŏ	Ő	321	536				
	6 Kuswala 7 Raddoluwa		2,235	1,095	1,233	1.424	1,591	1,777	2,021	2,298	2,296	2,296	168) () 0	0	0	0	344	574				
	8 Seeduwa	2	4,657	2,283	2,569	2,967	3,315	3,701	4,211	4,783	4,783	4,783	168	<u>-</u>) 0	0	632	1,196 0	1,578 527	1,913 878		.0	o	
	9 Andambalama		3,418	1,876	1,888	2,178	2,433		3,091	3,511	3,511	3,511	183 183			, 0	0	0	0 n	502	837				
	10 Dewamolfawa		3,260	1,598	1,798	2,077	2,321	2,591 1,703	2,948 1,937	3,348	3,348	3,348 2,200	183		, i	, O	ŏ	ŏ	ŏ	330	550				
100 C	11 Heenatiyana 12 Kowinna		2,142	1,050 1,324	1,490	1,305	1,923	2,147	2,442	2,774	2,774	2,774	183	i i	5 0) Ó	0	0	0	416	694				
	13 Madawaka		2,588	1,263	1,426	1,647	1,841	2,055	2,338	2,658	2,656	2,656	183) () O	0	0	0	398	664				
	14 Thempola		6,731	3,300	3,713	4,288	4,792	5,350	6,087	6,913	6,913	6,913	183) (0	0	4,768	6,410	1,037	1,728		0 18	0 0	
	Total of Katana P.S. (Part)		47,500	23,288	26,203	30,262	33,814	37,751	42,952	48,786	48,788	48,786	170) 180	2,015	3,149	7,280	7,280	7,260	7,280		and the Rest of States of	0 2,015	
	Katunayake EPZ			1,223	1,383	1,617	1,840	2.083	2,388	2,724	2,724	2,724	122	••••••••••••••••••••••••	61		1,104	1,800	2,043	2,261	2,342				
Mahara P.S. (Parl)	1 Enderarrada 2 Pinnemeda	1-B 1-B	6,095 10,917	2,190	2,478	2,897	3,295	3,732	4,277	4,879	4,879	4,879	122	i (3 145	1,154	1,978	2,865	3,659	4,050	4,196		0 22	6 1,798	
	3 Gonahera	2	10 408	2,088	2,352	2,782	3,142	3,558	4,077	4,651	4,651	4,651	132	0		0	0	612	1,183	1,535	1,861				
	4 Kinilawela		8,149	1,635	1,849	2,182	2,460	2,786	3,192	3,842	3,842	3,642	132	1 9			0	. 0	0 0	546 359	910 598				
	5 Narameta		5,351	1.074	1,214	1,420	1,616 1,343	1,829 1,520	2,096	2,392 1,987	2,392	2,392 1,987	132 .	1 2) (} (, ,	0	0	ñ	298	497				
	6 Udupila	· · ·	4,447 8,562	892 1.718	1,009 1,943	1,180	2,585	2,927	3,354	3,827	3.627	3,827	132	1	Ś	ó ő	õ	ő	ō	574	957		0	0 O	
	7 Weboda 8 Ihala Karagahamuna	··· 1-B	12,440	2,496	2,823	3,301	3,758	4.253	4,874	5,560	5,560	5,660	141	· · · · · · · · · · · · · · · · · · ·	165		2,254	3,265	4,170	4,615	4,781				
· · ·	9 Kendalyadda Pakwa		13,895	2,769	3,153	3,687	4,195	4,750	5,443	6,210	6,210	6,210	141	1. 9) (0	0	0	931	1,552				
	10 Mahara Nugepoda	1-B	7,136	1,432	1,619	1,893	2,154	2,439	2,795	3.169	3,189 3,342	3,189	143 141) 65 1 C		1,293	1,873	2,392 D	2,647 501	2,743 835				
	11 Pahala Karagahamuna		7,478	1,500	1,697	1,984 2,209	2,258 2,513	2,558 2,845	2,929 3,261	3,342 3,720	3,720	3,720	141		ין א ער א			ů	ň	558	930		0 26	0 2.065	
	12 Suriyapatuwa Total of Mahara P.S. (Part)		8.324	1,870	1,589	27,383	31,158	35,278	40.430	48,122	46,122	46,122		1	485	3,888	6,629	10,215	13,427	18,875	22,203		0 48		
Seeduwa Kalunayake	1 Ambalamula		1,735	243	260	286	316	348	377	105	408	409	161) () 0	0	0	Q	61	102]	0	00	
U.C.	2 Bandarawatta		10,488	1,459	1,570	1,727	1,908	2,106	2,280	2,488	2,488	2,468	165) () 0	0	0	0	370	617		0	0 0	
	3 Ketanayake North		2,768	366	414	458	504	556	602	651	851 1,563	851 1,663	174) 0	0	0	0	95 250	163 416			U	
	4 Kalunayake	1	7,070	990 384	1,058 389	1,164 428	1,288	1,420 522	1,537 565	1.653 612	612	812	183) U	ň	ň	ด้	92	153				
	5 Katunayake South 6 Liyanagemuša		17,840	2,499	2,670	2.938	3,245	3.532	3,879	4,197	4,197	4,197	183) <u>(</u>	, o	õ	õ	õ	630	1,049		0	0 0	
	Total of Seeduwa katunayake U.C.		42,500	5,953	6,361	6,999	7,731	8,534	9,240	9,999	9,699	9,999		1 0) (0	Q	0	0	1,500	2,500		0	0 0	
Waltata P.S.	1 Malagoda	1-8	20,253	2,352	2,963	3,666	4,407	5,237	5,922	6,678	6,676	6,676	122) 183		2,776	3,968	5,007	5,541	5,741				
	2 Patyawatta	1-A	9,899	1,149	1.448	1,792	2,154	2,560	2,895	3,263 2,813	3,283 2,813	3,263 2,813	122 122) 90) 77		1,792 1,170	2,171 1,672	2,610	2,773 2,335	2,937 2,419	1			
	3 Epitiwala	1-B	8,534	991	1,248	1,545	1,857	2,207 1,610	2,495 1,821	2,813	2,813	2,813	122) 77		853	1,872	1,539	1,703	1,765	ł .			
	4 Horape 5 Mohabase	1-B 1-A	8,228 10,217	723 1,188	911 1,495	1,127 1,849	1,355 2,223	2,642	2,988	3,368	3,368	3,368	122) 92		1,849	2,241	2,894	2,663	3,031	l			
	5 Mahabage 6 Uswelakelyawa	, ¹¹	9,655	1,121	1,412	1,748	2,101	2,497	2,823	3,183	3,183	3,183	122	l à) i	• •	0	0	0	477	799				
	7 Mathumagala	1-8	2,618	384	383	474	570	677	765	863	863	863	122) 24	285	474	574	690	734	777		0 52	5 140	
	8 Kurukusawa		5,899	885	883	1,068	1,284	1,525	1,725	1,945	1,945	1,945	141		0	0	0	0	0 5,089	292 5,407	485		0 17	0 0 5 2,099	
	9 Waiszra	1-A	19,297	2,241	2,823	3,493	4,199	4,990	5,643 1,887	6,381 2,105	6,361 2,105	6,361 2,105	156	l	175	2,099	3,493	4,232	5,049	316	528		v	s ⊼nas	• •
	10 Nugape		6,386	742	934 561	1,158 694	1,390	1,651 991	1,887	2,105	2,105	1,283	185		, . , .	, U) O	0	0	ŏ	189	316				
	11 Pamonogama 12 Delathara		3,832 4,790	445	701	887	1,042	1,239	1,401	1,578	1,579	1,579	165) õ		õ	Ď	Ō	237	395				
	12 Detatoara 13 Bopitiya		8,494	. 555	1,242	1,538	1,848	2,198	2,484	2,800	2,800	2,800	165	() () 0	0	0	0	420	700	1	0	0 0	
	Total of Wattala P.S.		118,100	13,482	16,983	21,010	25,262	30,021	33,950	36,269	38,269	38,289		L	0 697	7,239	12,408	16,078	19,739	23,286	25,613 123,980		0 39		
			328,700	88,457	102,090	121,758	140,393	161.055	192,615	219,659															

Projected Full Development Domand (m3/d) from New-area.wk4

	1690	1995	2000	2005	2010	2015	2020	2025	2039
Ja Ela P.S.	21,250	25,441	30,566	35,902	41,846	49,812	58,778	58,778	58,778
Ja Ela U.C.	3,779	4,580	5,531	6,527	7,624	8,951	10,424	10,424	10,424
Katana P.S. (Part)	23,288	26,203	30,262	33,814	37,751	42,952	48,786	48,786	48,766
Katunayaka EPZ	0	0	0	0	0	7,280	7,280	7,280	7,280
(20% by proundwallsr)									
Mahara P.S. (Part)	20,705	23.421	27,383	31,155	35,278	40,430	48,122	46,122	46,122
Seeduwa Katunayake	5,953	6,361	6,999	7,731	8,534	9,240	8,699	9,990	9,689
Wattala P.S.	13,482	16,983	21,018	25,282	30,021	33,950	38,269	38,269	38,269
Total	88,457	102,990	121,758	140,393	161,055	192,615	219,659	219,659	219,659

Node Demand Summary	Node	1		Total D)a
· · · · ·	No.	1995	2000	2005	
	122	0	748	6,937	
and the demonstrated and an exception of the second s	132	0	. 0	0	
	141	0	260	2,068	
Ragama ——>	145	б' ^т	325	3,823	
Welsara, Kandana>	158	0	513	5,821	
Ja Ela U.C>	161	0	492	5,325	
Construction and the second	165	D	258	2,200	
Kalana>	166	Ó	Ò	0	
Kalunayake EPZ>	170	0	0	0	
	174	0	Ó	0	
Katans>	183	0	0	0	
Telal	T	0	2 594	26 976	_

y Av	erage Deman	d by Node (r	n3/d)		
	2010	2015	2020	2025	2030
0	o	n	0	1,870	3,117
3	6,230	7,957	10,015	10,641	11,268
-					
2	6,150	8,080	10,266	10.998	11,594
2	3,511	4,923	6,378 2,310 28,978	8,386	9,657
5	1,445	1,842	2,310	2,464	2.609
5	17,345	1,842	28,978	34,359	38,244 9,381
13	5,337	6,713	8,339	8,860	9,381
5	3,149	3,839	4,651	4,942	5,233
	5,145	3,0.33	4,031	4,042	0.435
<u>0</u>		929	5,759	5,539	8,176
					4
					ļ
0	0	0	0	3,210	5,351 18,759
5	3,149	4,768	6,410	13,691	18,759
0	0	7,280	7,280	7,280	7,280
8	3,082	4,465	5,702	6,310	6,538
· · ·	0.001		5,702		~,~~,•
0	0	812	1,183	3,312	4,822
					ł
8	3,547	5,138	6,562	9,252	10,842
Ģ	6,629	10,215	13,427	18,875	22,203
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0	0	0	0	370	617 163
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0	0	0	0	971	1,618
Û	0	0	0	1,500	2,500
0	8,913	11,846	14,651	16,426	17,465
0	Ó	0	0	292	486
9	3,493	4,232	5,089	5,407	5 7 2 5
0	0	0	0	1,162	1,937
9	13 100	16,078	19,739	1,162 23,288 107,851	25,613
6	44,856	07,858	84,173	107,851	123,980
	y Average De	mand (m3/m			•• •••
	2010	2015	2020	2025	2030
7	11,995	18.311	20 353	22,738 3,312	24,004
0		612	1,183 6,562	3,312	4,822
8	3,547 6,239	5,138	6,562	11,414	14,445
3	6,239	7,957	10,015	10,841	11,266
1	9,643	7,957 12,312 11,636	15,355 14,717	10,405	17,319 19,141
5 0	8,848 4,594	5,682	6.970	16,405 17,307 8,588	9778
ò i	1,051	929	6,970 1,759	5,909	9,778 8,793 7,280
ŏ	ŏ	7 280	7,280	7,280	7,280
õ"	Ö	0	0	98	103
0	Ó	U U	0	4,181	6,069
6	44,866	07,858	84,173	107,851	123,980

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Demand Allocation from PS Level to GS Division Level (4) New Service Area (Connected Demand - Development with Kalu Ganga) Biyagama Expansion Area (Priority 1) to be Commissioned in 1995 Future Expansion area (Priority 2) to be commissioned in 2010 or later. (as Low Development Area) Non-Priority area not to be commissioned before 2020.

Year	1995	2000	2005	2010	2015	2020	2025	203
Priority 1	0%	30%	50%	65%	75%	82%	88%	88
Priority 2				0%	15%	25%	33%	403
Non Priority						0%	15%	259

Demand Data from File C:\Kak-fs\Demands\Revised\New_rav.wk4

Progress Percentage to Full Development Demand

Preceshiya Sabha	Sub Division	Priority	1990					Vater Demar					Node	1				Demand (m3/a				**************************************			Average De
			Population	1990	1995	2000	2005	2010	2015	2020	2025	2030	No.	1995	2000	2005	2010	2015	2020	. 2025	2030	1995	2000	2005	2010
iyagama P.S.	1 Biyanwila	2	14,963	2,095	2,419	2,858	3,290	3,764	4,354	5,029	5,029	5,029	121	0	0	0	. 0	655	1,257	1,660	2,012				
	2 Bolegala	1	5,337	747	863	1,019	1,174	1,343	1,557	1,784	1,794	1,784	121	0	306	587	873	1,167	1,471	1,543	1,578				
	3 Gonaviela	1	10,444	1,462	1,686	1,995	2,297	2,627	3,646	3,510	3,510	3,510	121	0	598	1,148	1,708	2,285	2,678	3,019	3,080				
	4 Helyanthudawa	1 1	8,058	1,128	1,303	1,539	1,772	2,027	2,350	2,708	2,708	2,708	121	0	462	888	1,318	1,703	2,221	2,329	2,383				
	5 Mabbima	1 1	5,034	705	814	961	1,107	1,268	1,468	1,692	1,602	1,692	121	Ð	288	554	823	1,101	1,387	1,455	1,489				
	6 Makola	1	18,359	2,570	2,968	3,508	4,037	4,618	5,355	6,170	6,170	6,170	121	0	1,052	2,018	3,002	4,018	5,060	5,308	5,430				
	7 Pamunuwila	1	6,713	940	1,085	1,282	1,476	1,669	1,958	2,256	2,256	2,258	121	0	385	738	1,098	1,469	1,850	1,941	1,956				
	8 Pattiwela	1	3,006	421	488	574	601	758	877	1,010	1,010	1,010	121	0	172	330	491	657	828	869	889	0	3,263 9,979	6,282 12,745	8,312 15,532
	9 Blyagama (inc.IPZ)	Exis.	3,006 7,482 2,035	421 8,508 285	7,210	9,979 389	12,745	758 15,532 512	15,832 594	1,010 18,165 684	18,185		127	7,210	9,979	12,745	15,532	15,832	18,165	18,165	16,185	7,210	9,979	\$2,745	15,532
	10 Atherumula	Į	2,035	285	329			512			684	684	132	0	0	0	0	0	· Đ	103	171				
	11 Delgoda		1,218	170	197	232	267	308	355	409	409	409	132	0	0	0	0	0	0	61	102				
1	12 Kammahvatta	1	1,624	227	262	310	357	408	474	546	546	548	132	0	0	0	0	0	0	82	136				
	13 Kaluboda		3,018	423	488	576	664	759	880	1,015	1,015	1,015	132	0	0	0	0	0	0	152	254				
	14 Mawaramandiya	2	6,107	855	987	1,188	1,343	1,538	1,781	2,053	2,053	2,053	132	0	0	0	0	287	513	677	821				
	15 Meegahawatta	2	5,374	752	669	1,028	1,182	1,352	1,568	1,806	1,806	1,806	132	0	0	0	0	235	452	596	723				
1	16 Siyambalape	2	7,864	1,101	1,271	1,502	1,729	1,978	2,294	2,643	2,643	2,643	132	0	D	0	0	344	661	872	1,057				
	17 Walgama	4 1	10,988	1,538	1,776	2,098	2,416	2,784	3,204	3,692	3,692	3,692	132	0	629	1,200	1,726	2,403	3,028	3,175	3,249				
	18 Yabarakwa		2,481	347	401	474	546	624	724	834	834	834	132	0	. 0	0	0	0	0	125	208	0	629	1,208	1,798
	Total of Blyagama P.S.		120,100	22,274	25,417	31,497	37,509	43,883	48,680	54,018	54,016	54,018		7,210	13,871	20,215	28,841	32,195	37,771	40,130	41,742	7,210	13,871	20,215	26,641
rand Total			120,100	22,274	25,417	31,487	37,509	43,683	48,630	54,018	51,016	54,018		7,210	13,871	20,215	28,641	32,195	37,771	40,130	41,742	7,210	13,871	20,215	26,641

from Now-area	wit4	, ,							
	1.1								
	1990	1995	2000	2005	2010	2015	2020	2025	2030
Biyagama P.S.(excl. IPZ)	16,814	19,417	22,937	26,409	30,213	35,030	40,368	40,366	40,388
Biyagama IPZ only	5,460	0,000	8,650	11,100	13,650	13,650	13,650	13,650	13,850
Total	22,274	25,417	31,407	37,509	43,683	48,680	51.016	54.018	51.015

. scied Full Development Demand (m3/d)

Node Demand Summary	Node	Total D	Total Day Average Demand (m3/d)						
	No.	1995	2000 Č	2005	2010				
	121	0	3,263	6,262	9.				
Biyagama (incl. IPZ)>	127	7,210	9,979	12,745	15,				
	132	0	ê29	1,208	1,				
Total		7,210	13,871	20,215	26,				
		•							

Area Far-South (Harana P.S., Bandaragama P.S., Padukka Town) Priority 1 Area (along Ratnapura Road) to be commissioned in 2000 (as Low development area) Future Expansion area (Priority 2) to be commissioned in 2010 or later. (as Low Development Area)

| Progress Percentage to | | [| Year | 1995 | 2000

 | 2005

 | 2010 | 2015 | 2020 | 2025 | 2030

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| Full Development Dema | and | | Priority 1 | | 0%

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 | 0% | 15% | 25% | 33% | 40%

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from New-area	Development Lie "wkł	mano (moro)						1.1	
	1990	1995	2000	2005	2010	2015	2020	2025	2030
Bendaregams P.S.	9,473	11.350	13,651	16,169	18,947	22,118	25,633	25,833	25,83
Horana P.S. (part)	5.114	6,062	7.221	8.501	9,924	11.459	13,167	13,187	13.18
Silawaka P.S. (Pari)	1,049	1,299	1,691	1,983	2,297	2,751	3,251	3,251	3,25
Tolaí	15,635	19,711	22,584	26,653	31,168	38,329	42,051	42,051	42.05

	r				
Vode Demand Summary	Node	Tolal Da	y Average	Demand (m	3/d)
	No.	1995	2000 .	2005	2010
Silawaka (Padukka Town)>	428	0	0	0	
Bandaragama P.S>	494	0	0	0	
Bandaragama P.S>	497	0	Q	714	1,
forana P.S>	1000	0	Ó	0	
Total		0	Q	714	1,

aga Dem 010	and by Node 2015	(m3/d) 2020	2025	2030
9,312 15,532	13,113 15,832	16,053 16,165	18,121 16,185	18,856 16,155
1,798	3,250	4,653	5,844	6,722
26,641	32,195	37,771	40,130	41,742
26,841	32,195	37,771	40,130	41,742
			· · · · · · ·	
010	2015	2020	2025	2030
9,312	13,113	16,953	18,121	18,658
15,532	15,832	18,185	16,185	16,185
1,798	3,250	4,853	5,844	6,722
26,641	32,195	37,771	40,130	41,742