

APPENDIX H

EXISTING WATER SUPPLY SERVICE LEVEL

APPNDIX H EXISTING WATER SUPPLY SERVICE LEVEL

TABLE OF CONTENTS

1. PURPOSE.....	H-1
2. DATA SOURCE.....	H-1
3. METHODOLOGY	H-1

List of Tables

Table H.1	Classification of Water Source.....	H-2
Table H.2	Classification of Water Supply Service Level.....	H-2
Table H.3	Proportion Percentage of Water Supply Service Level by Ward	
	01. Ahlone.....	H-3
Table H.4	02. Bahan.....	H-4
Table H.5	03. Botataung.....	H-5
Table H.6	04. Dagon.....	H-6
Table H.7	05. Dagon Myothit East.....	H-7
Table H.8	05. Dagon Myothit East.....	H-8
Table H.9	06. Dagon Myothit North.....	H-9
Table H.10	07. Dagon Myothit Seikkan.....	H-10
Table H.11	07. Dagon Myothit Seikkan.....	H-11
Table H.12	08. Dagon Myothit South.....	H-12
Table H.13	09. Dala.....	H-13
Table H.14	10. Dawbon.....	H-14
Table H.15	11. Hlaing.....	H-15
Table H.16	12. Hlaingthaya.....	H-16
Table H.17	13. Insein.....	H-17
Table H.18	14. Kamayut.....	H-18
Table H.19	15. Kyauktada.....	H-19
Table H.20	16. Kyeemyindaing.....	H-20
Table H.21	17. Ianmadaw.....	H-21
Table H.22	18. Latha.....	H-22
Table H.23	19. Mayangone.....	H-23
Table H.24	20. Mingalardon.....	H-24

Table H.25	21. mingalartaungnyunt	H-25
Table H.26	22. North Okkalapa	H-26
Table H.27	23. Pabedan.....	H-27
Table H.28	24. Pazundaung	H-28
Table H.29	25. Sanchaung	H-29
Table H.30	26. Seikan Port.....	H-30
Table H.31	27. seikkyi Kanaungto	H-31
Table H.32	28. Shwepyitha.....	H-32
Table H.33	29. South Okkalapa	H-33
Table H.34	30. Tamwe.....	H-34
Table H.35	31. Thaketa	H-35
Table H.36	32. Thingangyun	H-36
Table H.37	32. Thingangyun	H-37
Table H.38	33. yankin.....	H-38
Table H.39	Water Level in Gyobyu Reservoir	H-39
Table H.40	Gyobyu Pumping Station.....	H-40
Table H.41	Water Level in Phugyi Reservoir.....	H-46
Table H.42	Phugyi Pumping Station	H-47
Table H.43	Water Level in Hlawga Reservoir.....	H-59
Table H.44	Hlawga Pumping Station No.1.....	H-60
Table H.45	Hlawga Pumping Station No.2.....	H-72
Table H.46	Yegu Pumping Station.....	H-84

APPENDIX H EXISTING SERVICE LEVEL

1 PURPOSE

As described in Chapter two there are several players involved in the supply of water to the City at present. These players obviously operate at different service levels. The purpose of this Appendix is to present the service level for each township and ward within the study area, considering the current status of water supplied by a wide variety of organizations including YCDC and individuals. A description of the methodology employed to estimate service level is also provided.

2 DATA SOURCE

It is to be noted that due to the absence of necessary data, current service level can only be estimated using whatever data is available. The accuracy of the estimated service level depends on the accuracy of data used in the estimation. We suggest that the service level estimated in this Appendix be used as a guideline for planning purposes. It is also suggested that as more reliable data is gathered during the process of implementation of the Master Plan, the service level presented be amended and the amended service level be used for planning thereafter.

3 METHODOLOGY

The methodology employed to estimate the current water supply service level is explained below.

The service level is calculated for YCDC owned facilities and privately owned facilities. These statistics are then amalgamated to obtain the overall service level for township and wards.

Step I: Collect township population and its distribution within the wards/villages (see Appendix D)

Step II: Obtain the method of water supply for each township through discussions with the relevant staff. Six main methods are employed to supply water by YCDC (Table H.1). In the case of privately owned facilities, there are four methods (Table H.2).

Step III: Estimate the township population supplied by each method. This was estimated by study team through discussions with township staff.

Step IV: Distribute water supply method for each township among its wards /villages proportion to township population in each ward.

Step V: Assign service level (for each method) for the population obtained through discussion with staff.

Table H.1 Classification of Water Source

Facility Type	Code	Description
YCDC Owned Facility	Pipe-SW	The source of water for this group of people is surface water (eg. Reservoir) obtained by pipelines
	Pipe-SW/GW	Source of water is either reservoir or groundwater supplied by pipelines
	Pipe-GW	Source of water is groundwater supplied by pipelines
	T-Well	Source of water is tube well supplied direct to customer. No pipelines
	Boat	Source of water is tube well supplied by boat. Eg. Seikkyi Kanaungto township
	Pond	Source of water is YCDC owned pond or lake directly abstracted by customer
Privately Owned Facility	Dug/Driven Well	Source of water is groundwater (dug or driven well) obtained directly by customer either manually or water pump
	Tube well	Source of water is tube well obtained directly
	Pond	Source of water is privately owned pond or lake directly abstracted by customer
	Rain	This group of customers have no water facility. Rain water is their main source

Table H.2 Classification of Water Supply Service Level

Service Level Code	Description
Individual	There is water source without pipeline network supply, only house owner can access to the water source facility
Level I	There is water source without pipeline network supply, beneficiaries access to the water source facility
Level II	There is/are water source(s) with pipeline network supply, however beneficiaries access the communal/public faucets
Level III	There is/are water source(s) with pipeline network supply, beneficiaries can utilize the water from the in-house faucet(house connection)

The water supply service level estimated for each township and wards using the above methodology are in Tables H-1-1 to H-1-36.

Table H.3 Proportion Percentages of Water Supply Service Level by Ward

01. Ahlone

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain		
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.	
1	178		3,189				7%								53%	10%		30%				100%	
2	796		3,694												2%			98%				100%	
3	1,266		9,433				30%								5%			65%				100%	
4	207		1,490				3%								5%			92%				100%	
5	733		5,006				61%								20%			19%				100%	
6	933		3,942				11%								7%			82%				100%	
7	997		5,158				3%								13%			84%				100%	
8	449		2,495				95%											5%				100%	
9	1,092		5,764				40%								20%			40%				100%	
10	691		4,004				3%								5%			92%				100%	
11	306		1,695				30%								11%			59%				100%	
Total	7,648	6.00	45,870	0.0%	0.0%	0.0%	26.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.6%	0.7%	0.0%	60.4%	0.0%	0.0%	100%

Table H.4 Proportion Percentages of Water Supply Service Level by Ward

02. Bahan

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total				
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well				Pond	Rain		
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.	
1	388		2,379		100%																	100%	
2	116		708		100%																	100%	
3	648		3,970		100%																	100%	
4	960		5,880		80%								20%									100%	
5	930		5,716		95%								5%									100%	
6	934		5,749		80%								20%									100%	
7	1,617		9,849		95%								5%									100%	
8	1,233		7,554		100%																	100%	
9	1,780		10,906		100%																	100%	
10	422		2,586		75%								25%									100%	
11	1,531		9,381		100%																	100%	
12	949		5,809		100%																	100%	
13	342		2,102		90%								10%									100%	
14	355		2,052		75%								25%									100%	
15	535		3,279		95%								5%									100%	
16	125		761		90%								10%									100%	
17	120		753		60%								40%									100%	
18	1,120		6,881		75%								25%									100%	
19	460		2,840		70%								10%									100%	
20	760		4,650		80%								20%									100%	
21	620		3,802		100%																	100%	
22	413		2,532		100%																	100%	
Total	16,358	6.12	100,139	0.0%	91.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%	100%

H-4

Table H.5 Proportion Percentages of Water Supply Service Level by Ward

03. Botataung

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total			
	HH	C/H	Pop.	Pipe-SW			Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond	Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.
1	93		3,218				50%								50%							100%
2	145		10,282				50%								50%							100%
3	143		3,484		100%																	100%
4	124		4,654		100%																	100%
5	86		5,131		100%																	100%
6	105		5,166		100%																	100%
7	66		5,150		100%																	100%
8	117		5,698		100%																	100%
9	107		5,054		100%																	100%
10	269		7,597		100%																	100%
Total	1,255	44.17	55,434	0.0%	75.6%	0.0%	12.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.2%	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Table H.6 Proportion Percentages of Water Supply Service Level by Ward

04. Dagon

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain		
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.	
1	300		8,964				100%															100%	
2	67		5,527				80%											20%				100%	
3	238		8,952				100%															100%	
4	337		5,699				100%															100%	
5	135		12,937				100%															100%	
6																						0%	
Total	1,077	39.07	42,079	0%	0%	0%	97%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	3%	0%	0%	100%

Table H.7 Proportion Percentages of Water Supply Service Level by Ward

05. Dagon Myothit East

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well				Pond	Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.
1	571		2,637												60%	40%						100%
2	287		1,403												70%	30%						100%
3	276		1,398												70%	30%						100%
4	263		1,273												50%	50%						100%
5	762		4,407									10%			60%	30%						100%
6	108		843												50%	50%						100%
7	502		11,986												45%	55%						100%
8	1,714		6,833												65%	35%						100%
9	206		1,086												45%	55%						100%
10	34		186												80%	20%						100%
11	397		1,284												80%	20%						100%
12	754		3,551												40%	60%						100%
13	594		1,160									10%			35%	55%						100%
14	0		0												25%	75%						100%
15	0		0												20%	80%						100%
16	1,166		4,269												25%	75%						100%
17	423		1,844												5%	95%						100%
18	557		2,178												5%	95%						100%
19	757		1,736												5%	95%						100%
20	350		2,022												50%	50%						100%
21	916		2,404									100%										100%
22	317		1,064									100%										100%
23	0		0																100%			100%
24	555		1,190									100%										100%
25	0		0																			0%
26	0		0																			0%
27	0		0																			0%
28	0		0																			0%
29	0		0																			0%
30	0		0																			0%
31	0		0																			0%
32	0		0																			0%
33	0		0																			0%
34	0		0																			0%
35	0		0																			0%
36	0		0																			0%

H-7

Table H.8 Proportion Percentages of Water Supply Service Level by Ward

05. Dagon Myothit East

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total				
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well				Pond	Rain		
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.	
37	0		0																			0%	
38	0		0																				0%
39	0		0																				0%
40	0		0																				0%
41	0		0																				0%
42	0		0																				0%
43	0		0																				0%
44	0		0																				0%
45	0		0																				0%
46	0		0																				0%
47	0		0																				0%
48	0		0																				0%
49	0		0																				0%
50	0		0																				0%
51	565		2,115																				100%
52	302		1,239																				100%
53	0		0																				100%
54	0		0																				100%
Total	12,376	4.70	58,108	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	39.5%	45.8%	0.0%	0.0%	0.0%	0.0%	100%

8 - H

Table H.9 Proportion Percentages of Water Supply Service Level by Ward

06. Dagon Myothit North

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total		
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.
1	260		1,296									50%				10%	40%					100%
2	660		3,265													75%	25%					100%
3	674		3,206													70%	30%					100%
4	512		2,396									30%				50%	20%					100%
5	574		3,107									30%				50%	20%					100%
6	939		5,641													30%	70%					100%
7	1,443		8,344									60%				20%	20%					100%
8	1,030		4,939													90%	10%					100%
9	968		5,387													60%	40%					100%
10	527		2,553													35%	65%					100%
11	806		4,414													60%	40%					100%
12	886		4,679													50%	50%					100%
13	590		3,694													40%	60%					100%
14	545		3,537													35%	65%					100%
15	1,178		5,839													20%	10%		70%			100%
16	969		4,451													40%	60%					100%
17	740		4,028													40%	60%					100%
18	507		4,045													50%	50%					100%
19	775		6,935									20%				50%	30%					100%
20	885		4,714													35%	65%					100%
21	523		3,700													25%	75%					100%
22	21		136									10%				20%	70%					100%
23	1,159		6,231									20%				25%	55%					100%
24	903		4,912													30%	70%					100%
25	1,068		5,596									30%				35%	35%					100%
Total	19,142	5.59	107,045	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.9%	0.0%	0.0%	0.0%	41.9%	43.4%	0.0%	3.8%	0.0%	0.0%	100%

6 - H

Table H.10 Proportion Percentages of Water Supply Service Level by Ward

07. Dagon Myothit Seikkan

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total		
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.
1	655		2,278									60%			2%	38%						100%
2	1,760		5,094									47%			3%	50%						100%
3	556		1,215									68%			2%	30%						100%
4	277		1,218									14%			2%	14%		70%				100%
5	308		931									60%			4%	36%						100%
6	240		410															100%				100%
7	0		0															100%				100%
8	0		0															100%				100%
9	1,075		2,020									100%										100%
10	360		955									100%										100%
11	420		1,508									100%										100%
12	178		443									100%										100%
13	-		0																			0%
14	-		0																			0%
15	-		0																			0%
16	-		0																			0%
17	-		0																			0%
18	-		0																			0%
19	-		0																			0%
20	-		0																			0%
21	-		0																			0%
22	-		0																			0%
23	-		0																			0%
24	-		0																			0%
25	-		0																			0%
26	-		0																			0%
27	-		0																			0%
28	-		0																			0%
30	-		0																			0%
31	-		0																			0%
32	-		0																			0%
33	-		0																			0%
34	-		0																			0%
35	-		0																			0%
36	-		0																			0%
37	-		0																			0%

Table H.11 Proportion Percentages of Water Supply Service Level by Ward

07. Dagon Myothit Seikkan

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total		
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.
38	-		0																			0%
39	-		0																			0%
74	-		0																			0%
78	-		0																			0%
94	643		3,173																			100%
Total	6,472	2.97	19,245	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	53.2%	0.0%	0.0%	0.0%	1.5%	22.3%	0.0%	23.0%	0.0%	0.0%	100%

Table H.12 Proportion Percentages of Water Supply Service Level by Ward

08. Dagon Myothit South

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total		
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.
1	850		1,542												20%	80%						100%
2	2,667		906							5%					15%	80%						100%
3	2,250		9,981							35%					15%	50%						100%
4	1,916		8,342							45%		10%			10%	35%						100%
5	1,219		6,411									30%			5%	65%						100%
6	1,069		4,174												10%	90%						100%
7	393		1,242												100%							100%
8	1,332		5,074							20%		25%			25%	30%						100%
9	1,356		5,758												20%	80%						100%
10	1,600		6,919									15%			10%	50%		25%				100%
11	1,810		7,697												10%	90%						100%
12	3,356		12,742												10%	90%						100%
13	403		2,070												35%	65%						100%
14	2,120		8,492												15%	85%						100%
15	639		2,639												40%	60%						100%
16	52		204												100%							100%
17	359		612							5%					95%							100%
18	785		1,599									10%			30%	60%						100%
19	2,649		11,399												10%	90%						100%
20	2,306		11,399												15%	85%						100%
21	1,587		6,126												15%	85%						100%
22	692		2,266												30%	70%						100%
23	962		2,846												20%	80%						100%
24	849		3,503												15%	85%						100%
25	1,906		8,106												10%	90%						100%
26	378		1,545												5%	95%						100%
27	399		1,530									30%						70%				100%
28	495		2,511									100%										100%
29	598		2,382												70%						30%	100%
30	1,151		4,777												5%						95%	100%
31	298		720												5%						95%	100%
32	553		2,290																		100%	100%
Total	38,999	3.79	147,804	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.6%	0.0%	5.5%	0.0%	0.0%	0.0%	15.3%	66.1%	0.0%	1.9%	0.0%	5.6%	100%

H - 12

Table H.13 Proportion Percentages of Water Supply Service Level by Ward

09. Data

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well				Pond	Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.
1	95		4,217					10%	20%			70%										100%
2	832		4,167					10%	30%			60%										100%
3	1,220		8,849					10%	30%			60%										100%
4	761		3,568									100%										100%
5	377		3,191					10%				90%										100%
6	312		1,880									100%										100%
7	350		3,363									100%										100%
8	489		2,606									100%										100%
9	364		4,323									100%										100%
10	513		2,974									100%										100%
11	519		3,217					10%				90%										100%
12	778		6,992									100%										100%
13	380		3,611					15%	5%			80%										100%
14	620		2,972					10%				90%										100%
15	398		2,836					10%	40%			50%										100%
16	426		2,023					10%	10%			80%										100%
17	102		631									100%										100%
18	1,071		5,218									100%										100%
19	466		3,676									100%										100%
20	356		2,541									100%										100%
21	300		2,072									100%										100%
22	163		1,257									100%										100%
23	732		5,133									100%										100%
Total	11,624	7.00	81,317	0.0%	0.0%	0.0%	0.0%	4.5%	7.7%	0.0%	0.0%	87.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%

H - 13

Table H.14 Proportion Percentages of Water Supply Service Level by Ward

10. Dawbon

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well				Pond	Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.
1	1,516		16,831		5%							90%				5%						100%
2	768		6,577		5%							90%				5%						100%
3	928		7,861		7%							90%				3%						100%
4	562		6,239							60%		40%										100%
5	315		3,743							20%		60%				20%						100%
6	226		2,679							30%		50%				20%						100%
7	200		2,195							25%		50%				25%						100%
8	360		3,479									80%				20%						100%
9	199		2,173									90%				10%						100%
10	153		1,409									80%				20%						100%
11	656		7,670									70%				30%						100%
12	500		6,210									60%				20%	20%					100%
13	537		5,777							30%		50%				20%						100%
14	400		10,944							40%		50%				10%						100%
Total	7,320	11.45	83,787	0.0%	2.1%	0.0%	0.0%	0.0%	0.0%	14.3%	0.0%	70.0%	0.0%	0.0%	0.0%	12.2%	1.5%	0.0%	0.0%	0.0%	0.0%	100%

H - 14

Table H.15 Proportion Percentages of Water Supply Service Level by Ward

11. Haing

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total		
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.
1	1,299		15,294												15%	85%					100%	
2	576		10,380												20%	10%		70%			100%	
3	211		7,561												15%			85%			100%	
4	210		4,792		70%										30%						100%	
5	144		9,516		40%										60%						100%	
6	407		5,119												20%	80%					100%	
7	1,925		15,836												80%	20%					100%	
8	505		5,033									5%			40%	55%					100%	
9	244		9,569		40%										30%			30%			100%	
10	534		11,969		60%										25%	10%		5%			100%	
11	1,657		11,018									5%			25%	70%					100%	
12	1,895		13,930									10%			30%	60%					100%	
13	3,375		31,578									25%			50%	25%					100%	
14	19		3,487															100%			100%	
15	100		4,205													100%					100%	
16	1,654		17,464													45%	40%		15%		100%	
Total	14,755	11.98	176,751	0.0%	10.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.7%	0.0%	0.0%	39.0%	31.8%	0.0%	13.2%	0.0%	0.0%	100%

H-15

Table H.16 Proportion Percentages of Water Supply Service Level by Ward

12. Hlaingthaya

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well				Pond	Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.
1	2,876		17,493													25%	75%					100%
2	1,057		7,305													29%	71%					100%
3	2,258		11,593													25%	75%					100%
4	63		663													25%		75%				100%
5	71		520													72%	28%					100%
6	77		546													20%		80%				100%
7	3,492		19,826													10%	90%					100%
8	975		5,298							10%						19%	71%					100%
9	2,744		16,393							10%						7%	83%					100%
10	2,717		14,472							5%						9%	86%					100%
11	3,176		15,094							5%						13%	82%					100%
12	1,716		10,805													19%	81%					100%
13	1,432		8,902							15%						10%	75%					100%
14	1,312		12,842							10%						41%	49%					100%
15	690		5,169													26%	74%					100%
16	2,637		14,177							10%						9%	81%					100%
17	48		885													5%		95%				100%
18	2,085		13,764													11%	89%					100%
19	1,967		7,128													16%	84%					100%
20	1,070		6,888													12%	88%					100%
21	676		2,080																			100%
22	482		1,545																			100%
23	681		3,171																			100%
24	782		1,621																			100%
25	271		821																			100%
26	792		3,407																			100%
27	676		3,084																			100%
28	387		1,920																			100%
29	395		2,302																			100%
Total	37,605	5.58	209,714	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.7%	0.0%	9.5%	0.0%	0.0%	0.0%	15.2%	70.8%	0.0%	0.8%	0.0%	0.0%	100%

Table H.17 Proportion Percentages of Water Supply Service Level by Ward

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well				Pond	Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.
1	1,779		8,654													20%	80%					100%
2	1,927		15,931													13%	87%					100%
3	1,914		11,614													17%	83%					100%
4	3,130		20,946													10%	90%					100%
5	2,770		18,418													5%	95%					100%
6	538		4,449													4%	96%					100%
7	386		3,190													80%	10%		10%			100%
8	257		2,125													48%	52%					100%
9	1,750		14,472													4%	96%					100%
10	1,300		10,751													3%	97%					100%
11	935		7,732													29%	71%					100%
12	1,950		16,126													27%	73%					100%
13	956		7,859													23%	77%					100%
14	882		7,294						17%							22%	61%					100%
15	1,514		16,140		40%											2%	58%					100%
16	2,700		22,328		22%											10%	68%					100%
17	2,900		23,982		45%											6%	49%					100%
18	3,105		25,680		9%											7%	84%					100%
19	1,205		9,965													15%	85%					100%
20	320		2,646						14%							86%						100%
21	1,520		3,119													16%	84%					100%
Total	33,738	7.51	253,421	0.0%	9.7%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	13.2%	76.4%	0.0%	0.1%	0.0%	0.0%	100%

H - 17

Table H.18 Proportion Percentages of Water Supply Service Level by Ward

14. Kamayut

Ward	Population			YCDC Owened Facilities									Privately Owened Facilities							Total		
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.
1	3,471		12,200				26%									74%						100%
2	850		6,692				29%		43%							28%						100%
3	2,910		17,262				45%									55%						100%
4	1,005		9,342				15%									85%						100%
5	964		4,663				5%									95%						100%
6	723		5,238						100%													100%
7	727		4,714						100%													100%
8	1,207		9,665						69%							31%						100%
9	1,567		6,056				55%									45%						100%
10	1,194		11,493				28%		4%							68%						100%
Total	14,618	5.97	87,325	0.0%	0.0%	0.0%	24.1%	0.0%	22.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	53.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Table H.19 Proportion Percentages of Water Supply Service Level by Ward

15. Kyauktada

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW	T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain		
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.
1	180		4,585			50%	50%															100%
2	218		5,937			50%	50%															100%
3	212		5,174				100%															100%
4	124		3,363				100%															100%
5	148		4,641				100%															100%
6	163		4,801				100%															100%
7	152		5,045				100%															100%
8	198		6,306				100%															100%
9	222		6,553				100%															100%
Total	1,617	28.70	46,405	0.0%	0.0%	11.3%	88.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Table H.20 Proportion Percentages of Water Supply Service Level by Ward

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total		
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.
1	277		2,778				20%								80%							100%
2	321		3,828				23%								77%							100%
3	226		3,228				8%								92%							100%
4	185		1,761				50%								50%							100%
5	440		4,640				30%								70%							100%
6	88		1,498				25%								75%							100%
7	264		2,246				20%								80%							100%
8	240		2,949				63%								37%							100%
9	263		3,346				27%								73%							100%
10	273		3,919				70%								30%							100%
11	282		4,134				87%								13%							100%
12	292		3,662				10%								45%	45%						100%
13	321		6,235				3%								17%	20%		60%				100%
14	112		5,575												15%			85%				100%
15	227		2,690				30%								60%	10%						100%
16	148		2,137				44%								56%							100%
17	218		4,275				43%								57%							100%
18	140		2,621				30%								50%	20%						100%
19	1,238		7,762								50%										50%	100%
20	1,930		12,894								50%										50%	100%
21	1,432		9,935								50%										50%	100%
Total	8,917	10.33	92,113	0.0%	0.0%	0.0%	20.4%	0.0%	0.0%	0.0%	16.6%	0.0%	0.0%	0.0%	0.0%	33.2%	4.0%	0.0%	9.2%	0.0%	16.6%	100%

H - 20

Table H.21 Proportion Percentages of Water Supply Service Level by Ward

17. Lanmadaw

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well				Pond	Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.
1	189		1,653				100%															100%
2	286		2,144		100%																	100%
3	191		1,820		100%																	100%
4	261		2,109				100%															100%
5	303		4,665				100%															100%
6	366		2,873				100%															100%
7	353		4,532				100%															100%
8	135		994				100%															100%
9	85		1,372				100%															100%
10	58		0																		100%	100%
11	19		1,431																		100%	100%
12	76		19,149				100%															100%
Total	2,322	18.41	42,742	0.0%	9.3%	0.0%	87.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.3%	0.0%	0.0%	100%

Table H.22 Proportion Percentages of Water Supply Service Level by Ward

18. Latha

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total		
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.
1	121		4,046		100%																	100%
2	53		3,528				100%															100%
3	132		4,338		100%																	100%
4	138		4,058				100%															100%
5	142		4,370				100%															100%
6	125		3,928				100%															100%
7	145		4,403				100%															100%
8	91		3,613				100%															100%
9	15		1,090				100%															100%
10	26		880				100%															100%
Total	988	34.67	34,254	0.0%	24.5%	0.0%	75.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Table H.23 Proportion Percentages of Water Supply Service Level by Ward

19. Mayangone

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well				Pond	Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.
1	4,217		28,080												100%							100%
2	5,474		35,667												100%							100%
3	4,231		27,749		100%																	100%
4	1,394		8,979		100%																	100%
5	5,522		38,746		100%																	100%
6	1,601		10,425		100%																	100%
7	844		6,132		100%																	100%
8	2,568		16,337		100%																	100%
9	1,665		11,053		100%																	100%
10	1,480		9,526		100%																	100%
Total	28,996	6.65	192,694	0.0%	66.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	33.1%	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Table H.24 Proportion Percentages of Water Supply Service Level by Ward

20. Mingalardon

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well				Pond	Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.
1	780		7,850		70%										30%							100%
2	550		4,047		70%										30%							100%
3	209		1,400		30%										50%	20%						100%
4	95		730	10%	90%																	100%
5	159		1,394		30%										70%							100%
6	257		2,227	10%	80%										10%							100%
7	86		706		90%										10%							100%
8	258		2,282												30%	70%						100%
9	332		2,337		10%										70%	20%						100%
10	97		682		90%										10%							100%
11	272		2,313	10%	80%										10%							100%
12	395		2,872		90%										10%							100%
13	1,400		9,737							20%					50%	30%						100%
14	1,321		8,149										70%		30%							100%
15	760		5,051												50%	50%						100%
16	807		5,915		70%										15%	15%						100%
17	2,695		18,834							20%					50%	30%						100%
18	2,155		16,382												50%	50%						100%
19	1,680		17,393												50%	50%						100%
20	379		3,566												50%	50%						100%
21	2,587		17,630												35%	65%						100%
22	109		1,229												40%	60%						100%
23	1,294		10,175		10%										50%	40%						100%
24	34		1,558		60%										40%							100%
25	705		6,025		90%										10%							100%
26	356		3,737		90%										10%							100%
27	159		2,215												40%	60%						100%
28	1,003		6,664		10%										50%	40%						100%
29	508		5,611												40%	60%						100%
30	352		3,828												60%	40%						100%
31	1,215		7,443		25%										40%	35%						100%
Total	23,009	7.82	179,982	0.3%	19.4%	0.0%	0.0%	0.0%	0.0%	3.2%	0.0%	0.0%	3.2%	0.0%	0.0%	40.2%	33.8%	0.0%	0.0%	0.0%	0.0%	100%

H - 24

Table H.25 Proportion Percentages of Water Supply Service Level by Ward

21. Mingalartaungnyunt

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain		
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.	
1	106		1,792		100%																	100%	
2	1,267		8,300		100%																		100%
3	975		5,858		100%																		100%
4	1,009		8,666		100%																		100%
5	1,764		6,316		100%																		100%
6	1,617		9,386		100%																		100%
7	595		4,301		100%																		100%
8	805		4,913		100%																		100%
9	905		6,230		100%																		100%
10	257		2,907		100%																		100%
11	482		3,113		100%																		100%
12	1,805		8,383		90%														10%				100%
13	895		3,664		100%																		100%
14	631		3,560		100%																		100%
15	842		4,246		100%																		100%
16	886		9,606		100%																		100%
17	645		4,247		100%																		100%
18	922		5,707		100%																		100%
19	1,719		12,049		100%																		100%
20	304		2,353		99%					1%													100%
Total	18,431	6.27	115,597	0.0%	99.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	0.0%	100%	

Table H.26 Proportion Percentages of Water Supply Service Level by Ward

22. North Okkalapa

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities								Total	
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond	Rain		
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III	L-I		Indiv.
1	1,349		15,262	70%	30%																	100%
2	3,617		24,647	80%	20%																	100%
3	1,264		14,985	50%	50%																	100%
4	974		15,598	40%	60%																	100%
5	519		17,135	50%	50%																	100%
6	1,218		13,645	40%	50%														10%			100%
7	1,596		17,243	50%	40%							10%										100%
8	1,214		13,408	55%	35%							10%										100%
9	1,442		11,673	80%	20%																	100%
10	1,320		11,981	70%	30%																	100%
11	1,878		14,389	40%	60%																	100%
12	2,557		24,286			10%	15%					15%			10%	50%						100%
13	2,548		17,400				10%					60%			5%	25%						100%
14	2,744		24,957			45%	10%					10%			15%	20%						100%
15	1,793		18,195		20%					80%												100%
16	948		12,993	10%	30%								15%	45%								100%
17	585		9,762	50%									20%	30%								100%
18	299		6,965										35%	65%								100%
19	2,406		19,815							20%						20%	60%					100%
Total	30,271	10.05	304,339	34.1%	24.8%	4.5%	2.6%	0.0%	0.0%	6.1%	0.0%	6.5%	2.1%	4.4%	0.0%	3.6%	11.0%	0.0%	0.4%	0.0%	0.0%	100%

Table H.27 Proportion Percentages of Water Supply Service Level by Ward

23. Pabedan

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total		
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.
1	814		5,389				100%															100%
2	207		1,650				100%															100%
3	847		6,216				100%															100%
4	820		5,832				100%															100%
5	556		3,564				100%															100%
6	575		4,062				100%															100%
7	520		6,558				100%															100%
8	800		6,663				100%															100%
9	271		2,660				100%															100%
10	620		4,537				100%															100%
11	394		2,838				100%															100%
Total	6,424	7.78	49,969	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Table H.28 Proportion Percentages of Water Supply Service Level by Ward

24. Pazundaung

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total		
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.
1	231		7,293		100%																	100%
2	268		7,169		100%																	100%
3	270		4,623		100%																	100%
4	21		350		100%																	100%
5	252		2,917		100%																	100%
6	191		2,609		100%																	100%
7	195		4,870		100%																	100%
8	150		3,088		100%																	100%
9	213		4,253		100%																	100%
10	219		3,218		100%																	100%
Total	2,010	20.09	40,390	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Table H.29 Proportion Percentages of Water Supply Service Level by Ward

25. Sanchaung

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total		
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW	T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond	Rain			
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.
1	550		5,853												10%	90%						100%
2	547		3,242				20%								20%	60%						100%
3	908		5,246				40%								10%	50%						100%
4	1,506		8,845				40%								10%	50%						100%
5	512		3,073				90%								10%							100%
6	771		4,061				50%								50%							100%
7	738		4,785				40%								50%	10%						100%
8	458		2,602				50%								50%							100%
9	597		3,458				40%								60%							100%
10	791		6,922				50%								50%							100%
11	980		5,890				50%								50%							100%
12	1,375		7,327				50%								50%							100%
13	340		2,132				35%								65%							100%
14	349		2,056				30%								65%	5%						100%
15	376		2,133				20%								80%							100%
16	672		3,841				5%								5%	30%		60%				100%
17	890		6,038				40%								60%							100%
18	814		5,447				50%								50%							100%
Total	13,174	6.30	82,951	0.0%	0.0%	0.0%	39.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	38.3%	19.3%	0.0%	2.8%	0.0%	0.0%	100%

Table H.30 Proportion Percentages of Water Supply Service Level by Ward

26. Seikan Port

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total		
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.
1	8		94					20%							40%	40%						100%
2	8		626					20%							40%	40%						100%
3	19		732					20%							40%	40%						100%
Total	35	41.49	1,452	0.0%	0.0%	0.0%	0.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	40.0%	40.0%	0.0%	0.0%	0.0%	0.0%	100%

Table H.31 Proportion Percentages of Water Supply Service Level by Ward

27. Seikkyi Kanaungto

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW	T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain		
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.
1	850		6,038								50%	50%										100%
2	900		3,846								50%	50%										100%
3	758		3,976								50%	50%										100%
4	703		3,841								50%	50%										100%
5	300		1,454									100%										100%
6	270		1,471									100%										100%
7	404		5,207								50%	50%										100%
8	229		1,105									100%										100%
Total	4,414	6.10	26,938	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	42.5%	57.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Table H.32 Proportion Percentages of Water Supply Service Level by Ward

28. Shwepyithra

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total	
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I
1	516		2,685												70%	30%					100%
2	417		2,326												89%	11%					100%
3	392		1,899												87%	13%					100%
4	-		0																		0%
5	2,841		18,849							15%					62%	23%					100%
6	2,641		17,175							10%					64%	26%					100%
7	931		8,285							10%					87%	3%					100%
8	2,101		12,597							15%					70%	15%					100%
9	2,747		16,814												60%	40%					100%
10	2,345		14,799												54%	46%					100%
11	1,906		11,283												73%	27%					100%
12	25		275												53%	47%					100%
13	677		4,107												42%	58%					100%
14	3,366		19,686												82%	18%					100%
15	1,881		17,497												62%	38%					100%
16	1,876		15,143												54%	46%					100%
17	1,355		7,885												50%	50%					100%
18	1,365		8,001												50%	50%					100%
19	306		1,271												50%	50%					100%
20	150		907												50%	50%					100%
Total	27,838	6.52	181,484	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	4.0%	0.0%	0.0%	0.0%	0.0%	0.0%	64.3%	31.7%	0.0%	0.0%	0.0%	100%

H - 32

Table H.33 Proportion Percentages of Water Supply Service Level by Ward

29. South Okkalapa

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well				Pond	Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.
1	1,236		6,483		100%																	100%
2	4,371		22,926		95%											5%						100%
3	3,989		20,922		95%											5%						100%
4	4,120		21,609		95%											5%						100%
5	4,996		26,204		90%											10%						100%
6	288		1,511		95%											5%						100%
7	3,719		19,506		95%											5%						100%
8	4,092		21,462				85%									10%	5%					100%
9	2,197		11,523		40%											20%	40%					100%
10	3,208		16,826		30%											50%	20%					100%
11	6,338		33,243				25%									50%	25%					100%
12	3,698		19,396				15%		10%							60%	15%					100%
13	1,952		10,238		40%											20%	40%					100%
Total	44,204	5.24	231,849	0.0%	54.3%	0.0%	12.7%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	21.6%	10.5%	0.0%	0.0%	0.0%	0.0%	100%

Table H.34 Proportion Percentages of Water Supply Service Level by Ward

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain		
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.	
1	1,783		12,017		100%																	100%	
2	1,428		9,317		100%																		100%
3	407		2,795		100%																		100%
4	654		4,535		100%																		100%
5	527		3,692		100%																		100%
6	964		6,451		100%																		100%
7	945		3,683		100%																		100%
8	1,483		9,910		100%																		100%
9	1,466		11,333		100%																		100%
10	539		4,987		100%																		100%
11	1,391		9,141		20%											80%							100%
12	504		3,695		100%																		100%
13	1,071		7,441		100%																		100%
14	1,268		8,693		100%																		100%
15	537		3,382		100%																		100%
16	719		4,456		100%																		100%
17	1,943		13,286		100%																		100%
18	435		3,121		100%																		100%
19	1,493		9,299		100%																		100%
20	425		4,008																				100%
Total	19,982	6.77	135,242	0.0%	91.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	8.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Table H.35 Proportion Percentages of Water Supply Service Level by Ward

31. Thaketa

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities							Total		
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW	T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond	Rain			
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II	L-III		L-I	Indiv.
1	8,619		48,140	30%	10%							30%			30%							100%
2	4,119		30,503			43%	13%								44%							100%
3	5,062		39,168			10%									60%	30%						100%
4	3,665		23,699									30%			50%	20%						100%
5	1,438		12,098									20%			60%	20%						100%
6	2,532		24,210									20%			60%	20%						100%
7	2,944		24,726									30%			60%	10%						100%
8	2,689		18,153									30%			40%	30%						100%
9	1,674		12,318									30%			50%	20%						100%
10	6,356		46,212									10%			70%	20%						100%
11	180		3,961				40%								60%							100%
12	2,700		11,394												100%							100%
Total	41,978	7.02	294,582	4.9%	1.6%	5.8%	1.9%	0.0%	0.0%	0.0%	0.0%	17.0%	0.0%	0.0%	0.0%	54.1%	14.7%	0.0%	0.0%	0.0%	0.0%	100%

Table H. 36 Proportion Percentages of Water Supply Service Level by Ward

32. Thingangyun

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well				Pond	Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.
1	2,001		23,793													30%			70%			100%
2	1,303		11,684													15%	85%					100%
3	1,106		6,646													20%	80%					100%
4	1,345		8,993						4%							36%	60%					100%
5	7,677		19,070													30%	70%					100%
6	1,047		10,992						21%	10%						8%	6%		30%			100%
7	642		4,860						3%							12%	85%					100%
8	1,631		14,340						10%	10%						10%	50%		20%			100%
9	1,304		12,417																100%			100%
10	629		3,826																100%			100%
11	1,796		11,615					15%	3%	15%						8%	59%					100%
12	1,074		12,741						7%							15%	38%		40%			100%
13	557		3,284													15%	85%					100%
14	2,466		15,611							10%						10%	80%					100%
15	453		3,061						10%							80%	10%					100%
16	196		8,051						87%										13%			100%
17	494		5,453													20%			80%			100%
18	2,177		19,641													20%			80%			100%
19	0		0						8%							92%						100%
20	674		2,078													20%			80%			100%
21	800		4,155						5%							5%			90%			100%
22	9		133																100%			100%
23	445		4,515						17%							5%	78%					100%
24	565		3,343						20%	10%						15%	55%					100%
25	334		3,278						37%	15%						22%	26%					100%
26	124		532													40%	60%					100%
27	176		6,316													15%	25%		60%			100%
28	680		6,859													60%	40%					100%
29	615		3,778						3%	30%						35%	32%					100%
30	664		3,950					10%	6%	10%						25%	49%					100%
31	103		913													50%	50%					100%
32	181		1,237						17%							30%			53%			100%
33	2,509		8,792													40%	60%					100%
34	102		564		10%											30%			60%			100%
35	104		584		48%											52%						100%
36	657		4,363						2%							48%	50%					100%

Table H. 37 Proportion Percentages of Water Supply Service Level by Ward

32. Thingangyun

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW	T. Well	Boat	Pond	Dug/Driven Well			Tube Well			Pond		Rain		
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.
37	172		1,124																100%			100%
38	123		527						20%							20%	30%		30%			100%
Total	36,935	6.85	253,119	0.0%	0.1%	0.0%	0.0%	0.8%	6.5%	3.2%	0.0%	1.1%	0.0%	0.0%	0.0%	20.2%	37.7%	0.0%	30.4%	0.0%	0.0%	100%

Table H.38 Proportion Percentages of Water Supply Service Level by Ward

Ward	Population			YCDC Owened Facilities									Privately Owned Facilities						Total			
	HH	C/H	Pop.	Pipe-SW		Pipe-SW/GW		Pipe-GW		T. Well	Boat	Pond	Dug/Driven Well			Tube Well				Pond	Rain	
	no.	capita	capita	L-II	L-III	L-II	L-III	L-II	L-III	L-I	L-I	L-I	Indiv.	L-I	L-II	Indiv.	L-I	L-II		L-III	L-I	Indiv.
1	203		3,960		100%																	100%
2	520		8,472		100%																	100%
3	194		2,941		100%																	100%
4	222		5,968		100%																	100%
5	490		9,974		100%																	100%
6	187		2,159		95%											5%						100%
7	329		4,447		90%											10%						100%
8	334		7,082		90%											10%						100%
9	248		7,768		15%											85%						100%
10	0		0		50%											50%						100%
11	581		12,386		45%											55%						100%
12	838		12,896		45%											55%						100%
13	387		6,554		40%											60%						100%
14	720		10,964		70%											30%						100%
15	656		9,091													100%						100%
16	550		8,197													100%						100%
Total	6,459	17.47	112,859	0.0%	59.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	41.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100%

Table H. 39 Water Level in Gyobyu Reservoir

Y, Month Date	2000											
	January	February	March	April	May	June	July	August	September	October	November	December
1	199.44	196.58	198.67	190.56	187.58	187.71	193.38	199.83	203.50	206.75	206.46	204.25
2	199.33	196.50	193.54	190.46	187.50	187.67	193.29	199.83	203.67	206.88	206.42	204.21
3	199.23	196.42	193.44	190.35	187.40	187.58	193.25	199.83	203.83	206.83	206.38	204.13
4	199.13	196.33	193.33	190.25	187.29	187.75	193.83	199.88	204.17	206.79	206.33	204.06
5	199.02	196.25	193.23	190.15	187.19	187.92	193.83	199.88	204.21	206.75	206.29	204.00
6	198.92	192.17	193.10	190.04	187.08	187.92	193.75	200.17	204.33	206.75	206.23	203.94
7	198.81	196.06	193.00	189.94	187.08	187.92	194.08	200.88	204.58	207.00	206.17	203.88
8	198.73	195.96	192.90	189.83	187.25	188.17	194.21	200.96	204.83	207.08	206.10	203.81
9	198.65	195.88	192.79	189.73	187.17	188.27	194.33	201.08	205.00	207.17	206.04	203.75
10	198.56	195.75	192.69	189.63	187.08	188.33	194.33	201.17	205.00	207.13	205.98	203.67
11	198.48	195.65	192.56	189.52	186.98	188.52	194.33	201.25	205.00	207.08	205.98	203.58
12	198.40	195.54	192.44	189.40	186.88	188.79	194.79	201.25	205.00	207.04	205.83	203.50
13	198.31	195.44	192.31	189.23	186.77	188.94	195.00	201.33	205.38	207.00	205.75	203.42
14	198.23	195.35	192.19	189.10	186.67	189.46	195.00	201.67	205.50	207.00	205.67	203.33
15	198.13	195.23	192.06	188.98	186.56	189.67	195.33	201.71	205.71	207.00	205.58	203.25
16	198.02	195.13	191.96	188.85	186.63	189.79	195.50	202.00	205.88	207.00	205.50	203.17
17	197.92	195.00	191.85	188.75	186.54	189.92	195.96	202.00	205.92	207.08	205.42	203.08
18	197.83	194.90	191.77	188.63	186.54	190.25	196.83	202.00	205.88	207.08	205.33	203.00
19	197.75	194.81	191.67	188.52	186.71	190.42	197.00	202.04	205.83	207.04	205.25	202.92
20	197.67	194.73	191.56	188.42	187.29	190.92	197.42	202.08	205.79	207.00	205.17	202.83
21	197.58	194.65	191.46	188.31	187.25	190.50	197.50	202.08	205.83	206.96	205.08	202.75
22	197.50	194.56	191.35	188.23	187.67	190.58	197.83	202.04	205.79	206.92	205.00	202.67
23	197.50	194.48	191.25	188.15	187.63	190.67	197.88	202.04	205.83	206.88	204.92	202.58
24	197.33	194.35	191.15	188.06	187.54	192.33	198.00	202.29	205.79	206.83	204.82	202.50
25	197.25	194.25	191.04	187.96	187.67	192.83	198.42	202.38	205.79	206.75	204.75	202.42
26	197.17	194.15	190.96	187.85	187.58	193.17	199.17	202.50	206.00	206.71	204.67	202.33
27	197.06	194.02	190.85	187.77	187.63	193.20	199.29	202.50	205.96	206.67	204.58	202.25
28	196.96	193.92	190.79	187.69	187.83	193.54	199.38	202.83	205.92	206.63	204.50	202.17
29	196.85	193.79	190.75	187.60	187.92	193.54	199.42	203.08	206.25	206.58	204.42	202.00
30	196.75		190.69	187.50	187.88	193.46	199.67	203.25	206.58	206.54	204.33	201.92
31	196.67		190.65		187.79		199.67	203.33		206.50		
									Annual Average Water Level (Above			197.51

H - 39

Unit : Foot

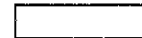
Legend :



Lowest Water Level



Highest Water level



Pump Operation Days

x 0.304794

60.201

Table H.40 Gyobyu Pumping Station

Duty Pump	3,310 m ³ /hr x 184 kW x 13.7 m x 2 units
Stand-by	ditto x 1 unit

January, 2000

Date	Pump No.1	Pump No.2	Remarks
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17	4	4	
18			
19	6	6	
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
Total	10	10	

Gyobyu Pumping Station

Duty Pump	3,310 m ³ /hr x 184 kW x 13.7 m x 2 units
Stand-by	ditto x 1 unit

February, 2000

Date	Pump No.1	Pump No.2	Remarks
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20	7	7	
21	5	5	
22	7	7	
23	9	9	
24	11	11	
25	7	7	
26	12	12	
27	21	10	
28	20	9	
29	23	7	
Total	122	84	

Gyobyu Pumping Station

Duty Pump	3,310 m ³ /hr x 184 kW x 13.7 m x 2 units
Stand-by	ditto x 1 unit

March, 2000

Date	Pump No.1	Pump No.2	Remarks
1	18	11	
2	19	10	
3	14	18	
4	7	19	
5	18	14	
6	11	14	
7	21	10	
8	10	18	
9	16	11	
10	9	17	
11	13	14	
12	12	18	
13	15	15	
14	12	19	
15	14	14	
16	19	13	
17	10	10	
18	9	8	
19	13	18	
20	11	16	
21	12	10	
22	17	12	
23	18	11	
24			
25			
26			
27			
28			
29			
30			
31			
Total	318	320	

Gyobyu Pumping Station

Duty Pump	3,310 m ³ /hr x 184 kW x 13.7 m x 2 units
Stand-by	ditto x 1 unit

April, 2000

Date	Pump No.1	Pump No.2	Remarks
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
Total	0	0	

Gyobyu Pumping Station

Duty Pump	3,310 m ³ /hr x 184 kW x 13.7 m x 2 units
Stand-by	ditto x 1 unit

May, 2000

Date	Pump No.1	Pump No.2	Remarks
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16	18	12	
17	7	14	
18	19	7	
19	12	11	
20	12	17	
21	18	12	
22	17	17	
23	18	12	
24	14	15	
25	17	11	
26	5	2	
27	2	2	
28	6	9	
29	20	10	
30	6	24	
31	12	17	
Total	203	192	

Gyobyu Pumping Station

Duty Pump	3,310 m ³ /hr x 184 kW x 13.7 m x 2 units
Stand-by	ditto x 1 unit

June, 2000

Date	Pump No.1	Pump No.2	Remarks
1	3	7	
2	3	13	
3			Power Failure (whole day)
4			ditto
5	8	14	
6	17	11	
7	6	21	
8	11	15	
9	16	13	
10	6	20	
11	2	11	
12	2	10	
13	10	3	
14	1	7	
15	13	3	
16	8	11	
17	7	2	
18	7	9	
19	12	3	
20	15	13	
21	No further operation was recorded in this year		
22			
23			
24			
25			
26			
27			
28			
29			
30			
Total	147	186	
Grand Total	800	792	