

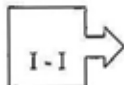
ANNEX I

EMP Targets Details



FEGAWS General Plan

GENERAL	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008
UFW					
Production (m3)	157,062,560	161,829,560	171,270,360	171,270,360	172,190,360
Sold water (m3)	86,986,301	95,751,314	104,324,555	110,288,896	115,471,529
Sold water (%)	55%	59%	61%	64%	67%
UFW (%)	45%	41%	39%	36%	33%
Revenue / (LE)					
Drinking water	24,934,336	27,242,176	29,471,418	31,050,419	32,422,276
Sanitation	3,652,277	4,603,213	5,582,159	6,105,686	6,500,246
Fees	5,319,574	5,570,003	5,832,791	6,097,695	6,375,346
Desludging	275,000	270,000	265,000	260,000	255,000
Other Revenues	500,000	500,000	500,000	500,000	500,000
New Connections	771,619	706,229	741,083	747,052	782,997
Total	35,452,806	38,891,621	42,392,451	44,760,853	46,835,865
Cost (LE)					
Salaries	18,407,181	19,711,105	21,898,125	24,206,265	26,471,228
Electricity	10,976,986	11,539,845	12,084,169	12,832,523	13,373,412
Materials	3,617,868	3,722,028	4,839,520	4,839,520	4,969,496
Out-of-store	4,556,299	5,515,176	5,952,803	5,438,841	5,156,379
Total	37,558,334	40,488,154	44,774,617	47,317,149	49,970,515
Cost recovery					
Total revenue	35,452,806	38,891,621	42,392,451	44,760,853	46,835,865
Total cost	37,558,334	40,488,154	44,774,617	47,317,149	49,970,515
Cost recovery (%)	94%	96%	95%	95%	94%
Collections (LE)					
Cash and by cheque	27,600,000	28,200,000	28,200,000	30,000,000	30,600,000
Governmental collections	7,700,000	7,931,000	8,168,930	8,413,998	8,666,418
Total collection	35,300,000	36,131,000	36,368,930	38,413,998	39,266,418



General Plan For FEGAWS Departments

		2003-2004	2004-2005	2005-2006	2006-2007	2007-2008
Top management						
UFW						
Production	m3	157,062,560	161,829,560	171,270,360	171,270,360	172,190,360
Sold water	m3	86,986,301	95,751,314	104,324,555	110,288,896	115,471,529
Sold water	%	55%	59%	61%	64%	67%
UFW	%	45%	41%	39%	36%	33%
Cost recovery						
Total Revenue	LE	35,529,968	38,962,244	42,466,559	44,835,558	46,914,165
Total cost	LE	37,326,848	40,488,154	44,562,748	47,317,149	49,748,190
Cost recovery	%	95%	96%	95%	95%	94%
Production						
Total cost	LE	15,698,897	16,021,622	17,280,674	17,524,634	17,892,988
Total production	M3	157,062,560	161,829,560	171,270,360	171,270,360	172,190,360
Unit cost	LE/m3	0.100	0.099	0.101	0.102	0.104
Number of staff	No	422	422	422	422	422
Network						
Total cost	LE	3,382,618	3,638,274	3,900,974	4,169,092	4,440,812
Repaired leaks (lines)	NO	5,837	6,095	6,007	5,821	5,656
Repaired leaks (house connections)	NO	2,722	2,813	2,769	2,788	2,649
Number of staff	NO	346	351	351	351	351
Service delivery (% population)	A+B	88%	91%	96%	100%	100%
	D+E	12%	9%	4%	0%	0%
Sanitation						
Total Cost	LE	8,392,260	10,296,770	12,102,997	13,725,580	14,862,073
Sewer connections	No	110,391	137,027	163,838	173,342	181,449
Number of staff	No	645	720	826	982	1,069
Desludging						
Total revenue	LE	275,000	270,000	265,000	260,000	255,000
Total cost	LE	630,000	635,000	635,000	635,000	635,000
Number of staff	NO	68	65	62	59	56
Revenue						
Total issued bills	LE	33,906,187	37,415,393	40,886,368	43,253,801	45,297,868
Total cost	LE	2,737,664	3,101,000	3,390,200	3,578,000	3,799,360
Cost m3	LE	0	0	0	0	0
Number of staff	No	240	250	260	260	260
Total collection/cash and by cheque	LE	29,808,000	30,738,000	31,020,000	32,700,000	33,354,000
Total collection governmental	LE	8,700,000	8,874,000	9,051,480	9,232,510	9,417,160
Meters Management						
Total cost	LE	1,136,652	1,210,141	1,294,776	1,372,418	1,451,392
Replaced meters (meter teams)	No	17,640	19,224	20,808	22,392	23,976
Repaired meters (workshop)	No	14,076	15,802	17,236	18,820	20,404

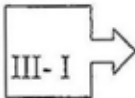
Water Production

Water Production		2003-2004	2004-2005	2005-2006	2006-2007	2007-2008
Production						
Old Qohafa	m3	9,460,800	9,460,800	9,460,800	9,460,800	9460800
New Qohafa	m3	11,352,960	11,352,960	11,352,960	11,352,960	11352960
Old El Azab	m3	34,689,600	42,573,600	42,573,600	42,573,600	42573600
New El Azab	m3	75,292,200	75,292,200	84,753,000	84,753,000	84753000
Tariya Plant	m3					
Upgraded Compact Unit	m3	22,200,000	22,200,000	23,130,000	23,130,000	24050000
Small Compact Unit	m3	4,067,000	950,000			0
<i>Total production</i>	m3	157,062,560	161,829,560	171,270,360	171,270,360	172190360
Total costs						
Old Qohafa	LE	1,201,039	1,225,154	1,298,248	1,321,283	1349169.368
New Qohafa	LE	1,052,274	1,073,847	1,154,334	1,174,941	1201644.317
Old El Azab	LE	4,154,427	4,591,677	4,865,430	4,915,376	4989303.28
New El Azab	LE	5,746,221	5,821,668	6,553,577	6,627,907	6702071.231
Upgraded Compact Unit	LE	2,940,942	3,071,578	3,409,085	3,485,127	3650799.533
Small Compact Unit	LE	603,993	237,697	0	0	0
<i>Total costs</i>	LE	15,698,897	16,021,622	17,280,674	17,524,634	17892987.73
Units Costs						
Old Qohafa	LE/m3	0.127	0.129	0.137	0.140	0.143
New Qohafa	LE/m3	0.093	0.095	0.102	0.103	0.106
Old El Azab	LE/m3	0.120	0.108	0.114	0.115	0.117
New El Azab	LE/m3	0.076	0.077	0.077	0.078	0.079
Upgraded Compact Unit	LE/m3	0.132	0.138	0.147	0.151	0.152
Small Compact Unit	LE/m3	0.149	0.250			
<i>Average Unit Cost</i>	LE/m3	0.100	0.099	0.101	0.102	0.104

Drinking Water Networks

Drinking Water Networks		2003-2004	2004-2005	2005-2006	2006-2007	2007-2008
Cost and leaks						
FEGAWS	Total length network (km)	2,762	2,939	3,044	3,104	3,154
	Staff (no.)	346	351	351	351	351
	Costs (LE)	3,382,618	3,638,274	3,900,974	4,169,092	4,440,812
	Unit Cost/km (LE)	1,123	1,124	1,151	1,191	1,236
	Leaks per km	2.11	2.07	1.97	1.88	1.79
	Leaks per 1000 connections	9.10	9.00	8.40	8.10	7.40
	Total number of leaks (lines)	5,837	6,095	6,007	5,821	5,656
	Total number of leaks (connections)	2,722	2,813	2,769	2,788	2,649
	Public Taps (no.)	1,535	1,445	1,365	1,280	1,200
FAYOUM CITY	Total length network (km)	223	228	233	233	233
	Staff (no.)	102	103	103	103	103
	Costs (LE)					
	Unit Cost/km (LE)					
	Leaks per km	2.70	2.50	2.50	2.30	2.30
	Leaks per 1000 connections	21.00	21.00	20.00	20.00	19.00
	Total number of leaks (lines)	602	570	583	536	536
	Total number of leaks (connections)	1,158	1,204	1,192	1,228	1,202
	Public Taps (no.)	10	10	10	10	10
FAYOUM MARKAZ	Total length network (km)	619	644	664	674	684
	Staff (no.)	42	42	42	42	42
	Costs (LE)					
	Unit Cost/km (LE)					
	Leaks per km	2.60	2.60	2.40	2.20	2.00
	Leaks per 1000 connections	13.00	13.00	12.00	12.00	11.00
	Total number of leaks (lines)	1,609	1,674	1,594	1,483	1,368
	Total number of leaks (connections)	601	631	611	642	618
	Public Taps (no.)	310	280	260	240	220
ITSA	Total length network (km)	500	520	540	550	560
	Staff (no.)	45	45	45	45	45
	Costs (LE)					
	Unit Cost/km (LE)					
	Leaks per km	1.60	1.60	1.50	1.50	1.50
	Leaks per 1000 connections	3.00	3.00	3.00	2.00	2.00
	Total number of leaks (lines)	800	832	810	825	840
	Total number of leaks (connections)	154	162	170	119	125
	Public Taps (no.)	300	285	270	255	240


Drinking Water Networks		2003-2004	2004-2005	2005-2006	2006-2007	2007-2008
IBSHWAY	Total length network (km)	514	596	616	636	646
	Staff (no.)	49	51	51	51	51
	Costs (LE)					
	Unit Cost/km (LE)					
	Leaks per km	1.80	1.80	1.70	1.60	1.50
	Leaks per 1000 connections	7.00	7.00	6.00	6.00	5.00
	Total number of leaks (lines)	925	1,073	1,047	1,018	969
	Total number of leaks (connections)	397	417	375	394	345
	Public Taps (no.)	320	305	290	275	260
SENOURES	Total length network (km)	428	448	468	478	488
	Staff (no.)	56	57	57	57	57
	Costs (LE)					
	Unit Cost/km (LE)					
	Leaks per km	1.20	1.20	1.20	1.20	1.20
	Leaks per 1000 connections	3.00	3.00	3.00	3.00	2.00
	Total number of leaks (lines)	514	538	562	574	586
	Total number of leaks (connections)	161	169	177	186	130
	Public Taps (no.)	255	245	235	225	220
TAMYA	Total length network (km)	478	503	523	533	543
	Staff (no.)	52	53	53	53	53
	Costs (LE)					
	Unit Cost/km (LE)					
	Leaks per km	2.90	2.80	2.70	2.60	2.50
	Leaks per 1000 connections	8.00	7.00	7.00	6.00	6.00
	Total number of leaks (lines)	1,386	1,408	1,412	1,386	1,358
	Total number of leaks (connections)	252	232	243	219	230
	Public Taps (no.)	340	320	300	275	250



% Service Level for Population

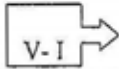
Fayoum City					
Level A	100%	100%	100%	100%	100%
Fayoum Markaz					
Level A	70%	75%	75%	80%	80%
Level B	25%	25%	25%	20%	20%
Level D	5%				
Itsa					
Level A	50%	50%	50%	60%	60%
Level B	35%	40%	45%	40%	40%
Level D	10%	5%	5%		
Level E	5%	5%			
Ibshaway/ Yousef El Sedek					
Ibshaway					
Level A	40%	50%	50%	60%	60%
Level B	55%	50%	50%	40%	60%
Level D	5%				
Level E					
Yousef El Sedek					
Level A	40%	40%	45%	50%	60%
Level B	45%	50%	50%	50%	40%
Level C	0%	0%	0%		
Level D	5%	5%	5%		
Level E	10%	5%			
Senoures					
Level A	30%	40%	45%	50%	60%
Level B	50%	50%	50%	50%	40%
Level C	0%	0%	0%		
Level D	10%	5%	5%		
Level E	10%	5%			
Tamya					
Level A	30%	35%	40%	50%	50%
Level B	60%	55%	55%	50%	50%
Level C	0%	0%	0%		
Level D	5%	5%	5%		
Level E	5%	5%			

Level A ($P > 20$ m, 24 hrs/day)
 Level B ($5 < P < 20$ m, 24 hrs/day)
 Level C ($5 < P < 20$ m, < 16 hrs/day)
 Level D ($P < 5$ m, 24 hrs/day)
 Level E ($P < 5$ m, < 16 hrs/day)

IV- I 

Sanitation

Sanitation	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008
Total FEGAWS					
Sewer Connections	110,391	137,027	163,838	173,342	181,449
Sewer connections per total number of connections (%)	0.37	0.44	0.50	0.50	0.50
Total costs (LE)	8,392,260	10,296,770	12,102,997	13,725,580	14,862,073
Costs/connection(LE)	76.02	75.14	73.87	79.18	81.91
Total length of sewer systems (km)	320	433	511	519	516
Cost/km (LE)	26.23	23.78	23.68	26.45	28.80
Staff	645	720	826	982	1,069



Revenue/Number of clients

Revenue		2003-2004	2004-2005	2005-2006	2006-2007	2007-2008
Number of clients						
FEGAWS						
Domestic	with sewer conn.	104,746	130,727	156,788	165,642	173,184
	Without sewer conn.	182,376	170,180	158,626	164,403	172,201
Commercial/ Industry	with sewer conn.	4,670	5,080	5,590	6,000	6,420
	Without sewer conn.	2,880	2,785	2,590	2,495	2,400
Governmental	with sewer conn.	975	1,220	1,460	1,700	1,845
	Without sewer conn.	2,850	2,720	2,560	2,400	2,330
Public Taps		1,535	1,445	1,365	1,280	1,200
<i>New connections</i>		15,432	14,125	14,822	14,941	15,660
<i>Total</i>		300,032	314,157	328,979	343,920	359,580
Fayoum city						
<i>New connections</i>		2,120	2,205	2,293	1,789	1,842
<i>Total</i>		55,120	57,325	59,618	61,406	63,249
Fayoum Markaz						
<i>New connections</i>		2,200	2,310	2,426	2,547	2,674
<i>Total</i>		46,200	48,510	50,936	53,482	56,156
Itsa						
<i>New connections</i>		2,450	2,573	2,701	2,836	2,978
<i>Total</i>		51,450	54,023	56,724	59,560	62,538
Ibshaway						
<i>New connections</i>		2,700	2,835	2,977	3,126	3,282
<i>Total</i>		56,700	59,535	62,512	65,637	68,919
Senoures						
<i>New connections</i>		2,550	2,678	2,811	2,952	3,100
<i>Total</i>		53,550	56,228	59,039	61,991	65,090
Tamia						
<i>New connections</i>		1,500	1,575	1,654	1,736	1,823
<i>Total</i>		31,500	33,075	34,729	36,465	38,288
Governmental						
<i>New connections</i>		39	40	40	41	41
<i>Total</i>		3,977	4,017	4,057	4,098	4,139

V-1

Revenue

		2003-2004	2004-2005	2005-2006	2006-2007	2007-2008
AVERAGE SOLD WATER	m3/day/connection					
Domestic	with sewer conn.	0.84	0.87	0.90	0.92	0.93
	without sewer conn.	0.53	0.55	0.56	0.57	0.58
Commercial/ Industry	with sewer conn.	1.27	1.32	1.36	1.39	1.40
	without sewer conn.	2.27	2.32	2.37	2.40	2.43
Governmental	with sewer conn.	7.00	7.00	7.00	7.00	7.00
	without sewer conn.	7.00	7.00	7.00	7.00	7.00
Drinking Groups		10.00	10.00	10.00	10.00	10.00
SOLD WATER (m3)						
Domestic	with sewer conn.	32,115,156	41,684,204	51,493,811	55,489,678	58,596,493
	without sewer conn.	34,947,854	33,915,119	32,560,911	34,421,744	36,414,916
Commercial/ Industry	with sewer conn.	2,165,631	2,449,992	2,776,834	3,040,112	3,285,449
	without sewer conn.	2,382,019	2,361,032	2,239,632	2,189,845	2,127,529
Governmental	with sewer conn.	2,491,125	3,117,100	3,730,300	4,343,500	4,713,975
	without sewer conn.	7,281,750	6,949,600	6,540,800	6,132,000	5,953,150
Public Taps		5,602,750	5,274,250	4,982,250	4,672,000	4,380,000
Total consumption		86,986,301	95,751,314	104,324,555	110,288,896	115,471,529
AVERAGE WATER RATE						
Domestic	LE	0.25	0.25	0.25	0.25	0.25
Commercial/Investments	LE	0.61	0.61	0.61	0.61	0.61
Commercial/ Industry	LE	0.38	0.38	0.38	0.38	0.38
Public Taps	LE	0.30	0.30	0.30	0.30	0.30
SOLD WATER						
Domestic	LE	16,765,752	18,899,831	21,013,681	22,477,856	23,752,852
Commercial/ Industry	LE	2,774,066	2,934,724	3,060,044	3,190,274	3,301,916
Governmental	LE	3,713,693	3,825,346	3,903,018	3,980,690	4,053,508
Public Taps	LE	1,680,825	1,582,275	1,494,675	1,401,600	1,314,000
Total	LE	24,934,336	27,242,176	29,471,418	31,050,419	32,422,276
REVENUES SANITATION						
Domestic		2,408,637	3,126,315	3,862,036	4,161,726	4,394,737
Commercial/ Industry		660,517	747,247	846,934	927,234	1,002,062
Governmental		583,123	729,651	873,189	1,016,726	1,103,447
Total		3,652,277	4,603,213	5,582,159	6,105,686	6,500,246
Number of issued bills						
Number of issued bills		1,800,194	1,884,942	1,973,872	2,063,518	2,157,478

	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008
TOTAL REVENUE					
Water	24,934,336	27,242,176	29,471,418	31,050,419	32,422,276
Sanitation	3,652,277	4,603,213	5,582,159	6,105,686	6,500,246
Meter rent	594,064	622,031	651,378	680,961	711,968
Meter repairs	3,960,427	4,146,872	4,342,518	4,539,739	4,746,451
Others	90,010	94,247	98,694	103,176	107,874
Services	45,005	47,124	49,347	51,588	53,937
Development	90,010	94,247	98,694	103,176	107,874
Administration cost	540,058	565,483	592,162	619,055	647,243
Total revenue	33,906,187	37,415,393	40,886,368	43,253,801	45,297,868
Social security	180,019	188,494	197,387	206,352	215,748
Taxes	144,016	150,795	157,910	165,081	172,598
Stamps	720,078	753,977	789,549	825,407	862,991
Total	1,044,113	1,093,266	1,144,846	1,196,840	1,251,337
Total collection					
Total collection cash and cheque	27,600,000	28,200,000	28,200,000	30,000,000	30,600,000
Total governmental collection	7,700,000	7,931,000	8,168,930	8,413,998	8,666,418
Total collection	35,300,000	36,131,000	36,368,930	38,413,998	39,266,418
Staff cost					
Salaries and incentives	2,387,664	2,601,000	2,840,200	2,978,000	3,149,360
Other cost	350,000	500,000	550,000	600,000	650,000
Total costs	2,737,664	3,101,000	3,390,200	3,578,000	3,799,360
Total revenue	33,906,187	37,415,393	40,886,368	43,253,801	45,297,868
Total cost	2,737,664	3,101,000	3,390,200	3,578,000	3,799,360
Cost per issued LE	0.08	0.08	0.08	0.08	0.08
Total collection	35,300,000	36,131,000	36,368,930	38,413,998	39,266,418
Total cost	2,737,664	3,101,000	3,390,200	3,578,000	3,799,360
Cost per collected LE	0.08	0.09	0.09	0.09	0.10

VI-I

Meter Management

Meter Management		2003-2004	2004-2005	2005-2006	2006-2007	2007-2008
Meters number						
Meters replaced per day (meter teams)	No	5	6	6	7	7
Meters replaced (UPW teams)	No	1,800	1,800	1,800	1,800	1,800
Rejected meters (Fayoum City)	No	2,772	2,772	2,772	2,772	2,772
Rejected meters (Districts)	No	792	650	800	800	800
Number of teams	No	12	12	12	12	12
Replaced meters	No	17,640	19,224	20,808	22,392	23,976
Meters repaired in the workshop	%	80%	82%	83%	84%	85%
Meters repaired in the workshop	No	2,200	18,569	20,002	21,586	23,169
Average meters repaired per day	No	53	60	65	71	77
Cost						
Workshop salaries and incentives		87,360	94,349	100,010	106,010	112,371
Management salaries and incentives		26,208	28,305	30,003	31,803	33,711
Meter technicians salaries and incentives		209,664	226,437	240,023	254,425	269,690
Spare parts		492,660	553,070	603,260	658,700	714,140
New meters		320,760	307,980	321,480	321,480	321,480
Meters Management costs		1,136,652	1,210,141	1,294,776	1,372,418	1,451,392
Meters Management fees		3,960,427	4,146,872	4,342,518	4,539,739	4,746,451
Result		2,823,775	2,936,731	3,047,742	3,167,321	3,295,058
Cost Replaced meters cost	LE	64	63	62	61	61
Cost Repaired meters cost	LE	43	43	43	42	42