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LOCAL DEVELOPMENT II URBAN PROJECT

Submitted to
USAID / CAIRO

Submitted by
WILBUR SMITH ASSOCIATES

in association with

PUBLIC ADMINISTRATION SERVICE
DEVELOPMENT CONSULTING OFFICE

DELOITTE AND TOUCHE
ENGINEERING AND GEOLOGICAL
CONSULTING OFFICE

**Needs Assessment Report
For
Education, Health & Youth Facilities
Helwan District**

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Note : Tables E-1, H-1, and Y-1 are individual field survey forms and are only in Arabic.

Introduction

This report includes a complete assessment of the Educational, Health and Youth services in Helwan district. The report also comprises a review of the urgent needs of the district in these three sectors.

The main aim of this assessment is that it will be used in laying out future plans for the new public facilities and for the repair and renovation of existing facilities.

1. Location :

This study covers all the Helwan district. Helwan is situated in the South of Cairo Governorate and is surrounded by the following.

- * El Maadi district : On the north.
- * The desert : On the south.

The district comprises 3 kisms :

- * Helwan kism.
- * El Tebbin kism.
- * The 15th of May kism.

2. Area :

The area of this district is about 50 km²

3. Population :

Based on the 1989 Census the Helwan population is estimated to be 564,190 persons. The population is expected to increase to 696,322 persons in the year 2000. This projected increase is estimated by 132,132 persons (1.9% annually).

4. The Report Components :

This report includes the following sections :

- Section I : Educational Facilities
- Section II : Health Facilities
- Section III : Youth Facilities

Section I
Educational Facilities

1. Standards :

- a. Classroom density: (40) Primary / Preparatory, (36) Secondary (General education), (32) Secondary (Technical education).
- b. Full day system (One shift)
- c. One urinal and one toilet per each 20 students of the 1st hundred.
One to three urinals and toilets for each additional hundred.
- d. One W.C. for each floor of the school.
- e. One desk for each 2 students of the Primary stage.
One desk for each student of the Preparatory and Secondary stages.
- f. The minimum number of classrooms for a Primary or Preparatory school is 18.
The minimum number of classrooms for a Secondary school is 18 to 24.

2. Educational Facilities :

(Table E-2)

3. School Shifts :

- a. (35) schools (38%) have one shift.
- b. (56) schools (61%) have two shifts.
- c. (7) schools (1%) have three shifts.

4. Educational Facilities Status :

(Table E-3)

- a. (58) school buildings (63%) are in good condition.
- b. (30) school buildings (33%) are in fair condition.
- c. (1) school building (1%) are in poor condition
- d. (3) school buildings (3%) are in serious condition

5. Students Density and Need for Classrooms :

(Table E-4)

There are 92 schools in the district serving a current total of 121,081 students.

Governorate : Cairo
District : Helwan

SURVEY SUMMARY OF BASIC DATA & OBSERVATIONS FOR EDUCATIONAL FACILITIES

Date Prepared: 1989

FACILITY					ENROLLMENT BY SHIFT									CONDITIONS (4)				EXPAN- SION POT. (5)
CODE NO.	NAME	OWNER- SHIP (1)	TYPE SCHOOL (2)	SEX (3)	FIRST			SECOND			THIRD			BUILD- ING	LIGHT- ING	EQUIP- MENT	W.C.	
					CLASS- ROOMS	STUD- ENTS	AVE. DENS.	CLASS- ROOMS	STUD- ENTS	AVE. DENS.	CLASS- ROOMS	STUD- ENTS	AVE. DENS.					
1	Helwan Mechanical Industrial Sch.	R	S	M	35	1246	306	40	1140	29				R	B	A	B	N
2	Helwan Commercial Sch.	R	S	F	42	1454	35	16	549	35				B	A	C	B	H
3	Helwan Commercial	G	S	M	17	554	33	2	70	35				A	A	A	B	H
4	El Obour	G	P	B	16	584	37	15	756	51				A	A	A	D	N
5	Salah Salem	G	S	M	51	1939	38	--	--	--				B	B	A	B	N
6	Helwan El Gadidah (Boys)	R	P	B	12	511	43	12	483	40				B	A	A	B	N
7	Dar El Moallem	G	S	B	29	792	33	5	170	34				B	A	A	B	N
8	Ossama Ebn Zeyed (Ezbet El Walda)	G	P	B	6	327	54	--	--	--				B	B	A	B	V
9	Khaled Ebn ElWalid (Ezbet El Walda)	G	P	B	6	263	44	6	247	42				C	C	C	C	N
10	El Shahid Mohamed Faird Sarhan	G	P	B	13	682	53	13	650	50				A	B	B	B	H
11	Helwan El Gadida (Mixed)	R	P	B	11	421	38	11	434	39				B	B	A	B	N
12	Helwan El Kadima	R	P	B	10	453	45	10	446	45				B	B	A	B	N
13	Helwan Prep. sch.	G	PR	M	45	1746	39	45	1803	40				B	B	A	B	N
14	Hamamat Helwan	G	P	B	22	1073	48	22	1004	46				B	A	A	D	N
15	Atlas.	G	P	B	15	823	54	15	790	53				B	B	B	B	N
16	El Mohafaza Alla El Koran	Mo	P	B	10	395	40	10	400	40				A	A	A	A	N
17	Zein El Abedien	R	P	F	6	274	46	6	222	37								
18	Ali Ebn Abi Taleb	G	P	B	10	394	39	--	--	--				D/	Moved to Ali Ebn Abu Taleb School			
19	Omar Ebn Abd El Aziz	R	P	B	12	548	45	12	606	50				B	A	A	B	N
20	Hafez Ibrahim language sch.	R	P	F	17	572	34	4	143	36				B	A	A	B	N
21	Helwan Prep. (Girl)	R	PR	F	13	587	45	13	556	43				A	A	A	A	N
22	Omar Ebn Abdel Aziz	G	PR	M	21	984	45	21	918	45				B	A	A	B	N
23	Al Rashad	G	P	B	12	596	50	--	--	--				B	A	A	A	N
24	Omar Ebn El Khattab	G	P	B	22	821	38	22	783	36				B	A	A	A	N
25	Waser - On El Abtal	G	PR	F	30	1220	41	30	1198	40				B	A	A	A	N
26	Dr. Abdel Raouf Hassan	G	P	B	12	473	40	12	582	49				B	A	A	A	N
27	Abdel Aziz Marawan	G	P	B	12	554	46	12	547	46				B	A	A	A	N
28	Eskan Helwan	G	P	B	15	820	54	15	525	35				B	A	A	B	N
29	Waser	G	P	B	14	715	51	14	724	51				B	A	A	B	N
30	El Orouba	G	P	B	19	731	49	--	--	--				A	A	A	B	N
31	El Nahda	G	P	B	15	756	50	--	--	--				A	A	A	A	N

NOTES: 1. Ownership - G (Government), R (Rented), MO (Moana)
 2. Schools - P (Primary), PR (Preparatory), S (Secondary), SE (Special Education)
 3. Sex - F (Female), M (Male), B (Both)
 4. Conditions - A (Good), B (Fair), C (Poor), D (Serious)
 5. Expansion Potential - H (Horizontal), V (Vertical), N (No)

Source: Wilbur Smith and Associates

Governorate : Cairc
District : Helwan

SURVEY SUMMARY OF BASIC DATA & OBSERVATIONS FOR EDUCATIONAL FACILITIES

Date Prepared: 1989

FACILITY					ENROLLMENT BY SHIFT									CONDITIONS (4)				EXPAN- SION POT. (5)
CODE NO.	NAME	OWNER- SHIP (1)	TYPE SCHOOL (2)	SEX (3)	FIRST			SECOND			THIRD			BUILD- ING	LIGHT- ING	EQUIP- MENT	W.C.	
					CLASS- ROOMS	STUD- ENTS	AVE. DENS.	CLASS- ROOMS	STUD- ENTS	AVE. DENS.	CLASS- ROOMS	STUD- ENTS	AVE. DENS.					
1.	Helwan El Balad	G	P	B	26	1287	50	26	1288	50				A	A	A	A	N
2.	El Nagah	Mo	P	B	6	204	34	6	201	33				A	A	A	A	N
3.	Asmant Kafr El Elw	G	P	B	7	350	50	7	323	46				A	A	A	A	N
4.	Kafr El Elw	G	P	B	26	1278	49	26	1389	53				A	A	A	A	N
5.	Kafr El Elw	G	PR	B	12	513	43	12	378	32				A	A	A	A	N
6.	El Tebbin	G	P	B	13	583	45	13	579	45				A	A	A	A	N
7.	El Maadania (Hadid & Solb)	R	S	M	10	283	28	14	543	38				A	A	A	A	N
8.	El Solb El Gadida	G	P	B	15	766	51	--	---	---				A	A	A	A	N
9.	El Solb El Kadima	R	P	B	13	706	54	13	732	56				A	A	A	A	N
10.	El Hadid Wassolb	G	PR	F	28	1449	52	24	925	39				A	A	A	A	N
11.	El Talae El Gadida & Kadima	G	P	B	24	1295	53	24	1354	56	22	1259	57	A	A	A	B	H
12.	Eskan El Marazik	G	P	B	8	408	51	8	403	50				A	A	A	A	N
13.	Mahatet El Kahraba	G	P/PR	B	5	253	51	5	216	43				B	A	A	B	V
14.	Rostom	R	F	B	12	461	38	--	---	---				A	A	A	A	N
15.	15th of May El Megawra "6"	G	P	B	18	930	52	--	---	---				Was moved to Ali Ebn Abu Taleb school.				
16.	Zahraa Helwan	G	P	B	10	342	34	10	355	36				A	A	A	A	V
17.	Hadaek Helwan	R	P	B	16	810	51	16	838	52				A	A	A	A	N
18.	Port Said	Mo	P	B	6	325	54	6	345	58				B	B	A	B	N
19.	El Massara El Balad	G	P	B	29	1688	58	29	1790	62				A	A	A	A	N
20.	El Massara El Baharia	G	P	B	21	1271	61	21	1261	60				A	A	A	A	N
21.	El Massara (Prep.)	G	PR	F	25	1076	43	25	1269	51				D	D	D	A	N
22.	Ans Ebn Malek (El Massara P&B)	G	P	B	22	1339	60	22	1254	57				A	A	A	A	N
23.	El Massara El Mahatta	G	P	B	50	2770	55	50	2833	57				A	A	A	B	N
24.	El Nasr	G	P	B	21	1585	75	21	1390	66				A	A	A	A	N
25.	Ara' Rashed	G	P	B	26	1609	61	26	1463	56				A	A	A	D	N
26.	Tarek Ebn Zeyed (Arab Ghonem)	G	P	B	23	1258	55	--	---	---				A	A	A	A	V
27.	Helwan Secondary (Girls)	G	S	F	45	2057	46	--	---	---				A	A	A	A	N
28.	Misr Helwan (Industrial Sec.)	R	S	M	11	179	16	--	---	---				B	A	A	D	H
29.	Hamamat Helwan (Manaret Helwan)	G	PR	F	13	507	39	12	458	38				A	A	A	A	N
30.	Tarek Ebn Zeyed	G	PR	F	22	973	44	--	---	---				A	A	A	A	N
31.	Arab Ghonem	G	P	B	33	1783	54	33	2039	62				B	A	A	B	V/H

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 3. Sex - F (Female), M (Male), B (Both)
 4. Conditions - A (Good), B (Fair), C (Poor), D (Serious)
 5. Expansion Potential - H (Horizontal), V (Vertical), N (No)

Source: Wilbur Smith and Associates

Governorate : Cairo
District : Helwan

SURVEY SUMMARY OF BASIC DATA & OBSERVATIONS FOR EDUCATIONAL FACILITIES

Date Prepared: 1989

FACILITY					ENROLLMENT BY SHIFT									CONDITIONS (4)				EXPAN- SION POT. (5)
					FIRST			SECOND			THIRD							
CODE NO.	NAME	OWNER-SHIP (1)	TYPE SCHOOL (2)	SEX (3)	CLASS-ROOMS	STUD-ENTS	AVE. DENS.	CLASS-ROOMS	STUD-ENTS	AVE. DENS.	CLASS-ROOMS	STUD-ENTS	AVE. DENS.	BUILD-ING	LIGHT-ING	EQUIP-MENT	W.C.	
1	El Tallaa (in Tebbin)	G	Pr	M	20	849	42							B	A	A	B	H
2	Hekr El Tebbin (El Sheik Mehfouz	G	P	B	16	732	46	16	760	48				A	A	A	A	N
3	Omar Ebn El Khatab (Nasr cars)	G	Pr	M	19	723	38	19	723	38				A	A	A	A	H/V
4	Othman Ebn Affan	G	P	B	24	1394	58	24	1310	55				A	A	A	A	N
5	Ezbet El Waldah	G	Pr	M	14	558	40	9	380	42				A	A	A	A	H/V
6	Zahraa Helwan	G	Pr	F	16	699	44							A	A	A	A	H/V
7	Zahraa Helwan	G	Pr	M	16	706	44							A	A	A	A	H/V
8	Zahraa Helwan	G	S	F	15	521	34							A	A	A	A	H/V
9	Zahraa Helwan	G	S	M	17	633	37							A	A	A	A	H/V
10	Mohamed Farid (Mays)	G	P	B	9	398	44							A	A	A	A	H/V
11	Mohamed Farid (Mays)	G	P	B	15	678	45							A	A	A	A	H/V
12	15th of May experimental (Mogawra 5)	G	P	B	3	83	28							A	A	A	A	H/V
13	Mostafa Kamel (Mogawra 1)	G	P	B	8	335	42							A	A	A	A	H/V
14	Mostafa Kamel (Mogawra 1)	G	P	B	20	1095	54							A	A	A	A	H/V
15	15th of May Industrial	G	S	F	26	917	35	26	744	29				A	A	A	A	H/V
16	Taha Husein (Mogawra 3)	G	P	B	19	926	48							B	A	A	B	H/V
17	Taha Husein (Mogawra 3)	G	P	B	4	165	41							A	A	A	A	N
18	Ali Mobarak (Mogawra 4)	G	P	B	6	227	38							A	A	A	A	H/V
19	Ali Mobarak (Mogawra 4)	G	P	B	17	950	56							A	A	A	A	H/V
20	15th of May (Mogawra 6)	G	P	B	6	243	41							A	A	A	A	H/V
21	El Salam (Mogawra 7)	G	P	B	6	233	39							A	A	A	A	H/V
22	El Salam (Mogawra 7)	G	P	B	12	441	37							A	A	A	A	N
23	El Faneya El Assasia El Gaweya	G	S	M	15	591	39							A	A	A	A	H
24	Saed Zeghloul (Mogawra 9)	G	S	B	8	322	41							A	A	A	A	H
25	Mohamed Farid	G	P	B	14	760	54							A	A	A	A	H
26	Arab Kafr El Elw	G	P	B	21	1094	52	6	329	55				A	A	A	A	H/V
27	Omar Ebn El Khatab (Nasr Cars)	G	P	B	6	338	56							A	A	A	A	H/V
28	Khollafa El Rashedien - Helwan Gardens	G	P	B	25	1310	52	25	1376	55				A	A	A	A	H/V
29	Khollafa El Rashedien-Wady Houf	G	P	B	26	1361	52	26	1238	48				A	A	A	A	H/V
30	Arab Kafr El Elw	G	Pr	M	15	662	44							A	A	A	A	N

NOTES: 1. Ownership - G (Government), R (Rented), MO (Moana)
 2. Schools - P (Primary), PR (Preparatory), S (Secondary), SE (Special Education)
 3. Sex - F (Female), M (Male), B (Both)
 4. Conditions - A (Good), B (Fair), C (Poor), D (Serious)
 5. Expansion Potential - H (Horizontal), V (Vertical), N (No)

Source: Wilbur Smith and Associates

Schools, Physical Condition
Summary SheetGovernorate: Cairo
District : Helwan

Date Prepared: 1989

School Type	Total No. of Schools	Physical Condition																Expansion Potential	
		Government				Rented				Moana				Total				Governorate	
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	V	H
Primary	64	38	2	1	1	1	5	-	2	3	1	-	-	42	8	1	3	19	18
Preparatory	15	9	5	-	-	-	1	-	-	-	-	-	-	9	6	-	-	5	7
Secondary (General)	13	5	4	-	-	2	2	-	-	-	-	-	-	7	6	-	-	3	6
Secondary (technical)																			
TOTAL	92	52	21	1	1	3	8	-	2	3	1	-	-	58	20	1	3	27 Schools	31 Schools

Expansion potentials are only for Government-owned Schools

H is horizontal, V is vertical, provide No. of classrooms which have potential for expansion

A = Good (needs only periodical maintenance, for example, painting & minor repairs) <10% of facility needs work

B = Fair (needs some renovations, for example, replacing of sewer risers, door frames & stair steps); 10-25% of facility needs work

C = Poor (needs major upgrading); > 50% of facility needs work

D = Serious (including building subject to failure or not economical to repair)

Type	Schools (as of 69)									Total			Additional Classrooms Needed																			
	1 Shift			2 Shifts			3 Shifts						1st year				2nd year				3rd year				4th year				5th year			
	No. of Clsr	No. of Stu.	Dens.	No. of Clsr	No. of Stu.	Dens.	No. of Clsr	No. of Stu.	Dens.	No. of Clsr	(1) No. of Stu.	(2) Dens.	F	3 SH	2 SH	T	F	3 SH	2 SH	T	F	3 SH	2 SH	T	F	3 SH	2 SH	T	F	3 SH	2 SH	T
P.	974	48850	50	665	34192	51	22	1259	57	1661	84301	51	--	--	724	1190	--	--	769	1249	--	--	816	1309	--	--	865	1371	--	--	914	1434
Pr.	309	13252	43	215	8824	41	--	--	--	524	22076	42	--	--	231	258	--	--	245	273	--	--	260	287	--	--	276	305	--	--	292	322
S.	165	6294	38	5	170	34	--	--	--	170	6434	38	--	--	9	16	--	--	14	24	--	--	16	29	--	--	23	34	--	--	28	39
S. T.	156	5224	33	98	3046	31	--	--	--	254	8270	33	--	--	101	109	--	--	106	117	--	--	115	124	--	--	122	131	--	--	130	139
S. E.																																
Total	1604	73590	46	983	46232	47	22	1259	57	2609	121081	46	--	--	1065	1573	--	--	1136	1653	--	--	1209	1751	--	--	1267	1841	--	--	1364	1924

F = Primary
PR = Preparatory
S = Secondary
S.T. = Secondary Technical & Commercial
S.E. = Special Education

F = Additional Classrooms Per year Needed to be Constructed for Future Population at Existing Students Density Level Based on Declared Rate of Growth, Working Existing Number of Shifts.

Sh. 3= Additional Classrooms Needed to be Constructed, if the Third Shift is Cancelled (to Work 2 Shifts Only) at Existing Students Density Level, Based on Declared Rate of Growth.

Sh. 2= Additional Classrooms Needed to be Constructed, if the Second Shift is Cancelled (to work One Shift Only) at Existing Students Density Level, Based on Declared Rate of Growth.

T. = Additional Classrooms Needed to be Constructed to Meet Education Department's Students Density Criteria Working One Shift Only Based on Declared Rate of Growth.

i = No. of years in future

NOTE:

- Calculations for each category are not based on the results from other categories. (i.e. Sh.3, Sh.2 and T do not take into consideration the number needed for F.) The District would construct Sh.3 or Sh.2 or T. No. of classrooms, not F plus that number.

STANDARD DENSITY :

- (40 F./ Pr.)
- (36 S. General)
- (32 S.T. & C.)

$$F = \frac{\left[\frac{\text{Total No. of Students} \times (1 + \frac{\text{Rate of Growth}}{100})^i}{\text{Average Density (2)}} \right] - (\text{No. of Class. in First Sh.} \times \text{No. of Sh.})}{\text{No. of Shifts}}$$

$$\text{Sh. 3} = \frac{\left[\frac{\text{Total No. of Students} \times (1 + \frac{\text{Rate of Growth}}{100})^i}{\text{Average Density (2)}} \right] - (\text{No. of Class. in First Sh.} \times 2)}{2}$$

$$\text{Sh. 2} = \frac{\left[\frac{\text{Total No. of Students} \times (1 + \frac{\text{Rate of Growth}}{100})^i}{\text{Average Density (2)}} \right] - (\text{No. of Class. in First Sh.})}{1}$$

$$T. = \frac{\left[\frac{\text{Total No. of Students} \times (1 + \frac{\text{Rate of Growth}}{100})^i}{\text{Standard Density}} \right] - (\text{No. of Class. in First Sh.})}{1}$$

6. **Expected Future Increases :**

The expected increase for all the educational stages is 2.7%.

7. **Deficiencies and Shortages in the Educational Services :**

- a. There is a large number of rented and moana schools which represents about (18%) of the total number of the district schools. Therefore the building replacement or expansion is difficult.
- b. There is no vacant land assigned to the educational services.
- c. Lack of financial resources for land purchase.
- d. Inadequacy of the school equipment and furnishing.
- e. Some schools are affected by the rise in the water level of the mineral springs, which is posing a problem for the building foundations.

8. **Development Potential in Education Services :**

- a. (Table E-4) reflects the need for classrooms according to the expected future increases (Item 6) through the upcoming 5 years. Thus, the total number of classrooms that have to be constructed to face the expected increase while canceling the 2nd shift and maintaining standard rates is 1,934 classrooms, that is approximately, 387 classrooms annually.
- b. Buying the rented land
- c. Increasing the funds allocated for maintenance and restoration.
- d. Provide adequate equipment and furniture specially for labs. and workshops.
- e. Boost the efficiency level of the teachers by means of conducting specialized teacher training courses.
- f. Use of modern educational areas.
- g. Build additional classrooms for schools having expansion potential.

9. **Needs Assessment and Estimated Cost :**

(Table E-5).

The total estimated cost amounts to L.E. 3,136,000

MULTI-YEAR CAPITAL IMPROVEMENTS PROGRAM

Governorate : Cairo
District : Helwan

EDUCATIONAL FACILITIES

Date Prepared: 1989

Facility Titles	Description of Improvement	Total Estimated Cost (LE)
1. Helwan Commercial - Boys.	Classrooms construction - chairs - photocopier.	125,500
2. El Obour Primary	W.C. construction	30,000
3. Salah Salem - Boys	W.C. patching	15,000
4. Dar El Moallemn	Classrooms construction	112,500
5. Osama Ben Zeid (Ezbet El Walda)	Classrooms construction, W.C. repair & patching	122,500
6. Khaled Ebn El Walid (Ezbet El Walda)	Patching of classrooms and W.C.	15,000
7. El Shahid Mohamed Farid Sarhan	Construction of classrooms and W.C.s	132,500
8. Helwan prep. - Boys	Patching of classrooms and W.C.s	10,000
9. Hammanat Helwan Primary	Patching of classrooms and W.C.s	5,000
10. Atlas Primary	Patching of classrooms and W.C.s	15,000
11. Ali Ebn Abi Taleb - Primary	Patching of classrooms and W.C.s	20,000
12. Omar Ebn Abdel Aziz Preparatory Boys	Construction of classrooms (replacement)	265,000
13. El Rashad primary	Patching of classrooms and W.C.s	25,000
14. Omar Ebn El Khatab Primary	Patching of classrooms and W.C.s	25,000
15. Nasser Prep. (on El Abtal - Prep. Girls)	Patching of classrooms and W.C.s	20,000
16. Dr. Abdel Raouf Hassan Primary	Patching of classrooms and W.C.s	25,000
17. Abdel Aziz Marawan Primary	Patching of classrooms and W.C.s	25,000
18. Eskin Helwan Primary	Patching of classrooms and W.C.s	20,000
19. Naser - Primary	Patching of classrooms and W.C.s	35,000
20. El Orouba Primary	Construction of classrooms, patching existing classrooms and W.C.s	122,500
21. El Nahda Primary	Patching of classrooms and W.C.s	5,000
22. Helwan El Balad Primary	Construction of classrooms, patching existing classrooms and W.C.s	122,500
23. Asmant Kafr El Elw Primary	Patching of classrooms and W.C.s	35,000
24. Kafr El Elw Primary	Patching of classrooms and W.C.s	30,000
25. Kafr E. Elw Prep.	Vertical expansion of the classrooms and patching classrooms and W.C.s	50,000

MULTI-YEAR CAPITAL IMPROVEMENTS PROGRAM

Governorate : Cairo
District : Helwan

EDUCATIONAL FACILITIES

Date Prepared: 1989

Facility Titles	Description of Improvement	Total Estimated Cost (LE)
26. El Tebbin - Primary	Patching of classrooms and W.Cs	10,000
27. El Hadid Wel Solb Prep. - Girls	Patching of classrooms and W.Cs	15,000
28. El Tallae El Kadima & El Gadida Primary	Construction of classrooms & W.C.s and patchin existing classrooms	152,500
29. Eskan El Marajik - Primary	Patching classrooms & W.Cs	35,000
30. Mahatet El Kahraba Primary / Prep.	Patching classrooms & W.Cs	25,000
31. 15th of May Primary	Construction of classrooms	132,500
32. Zahraa Helwan Primary	Construction of classrooms	132,500
33. El Maasara El Balad Primary	Patching classrooms & W.Cs	25,000
34. El Maasara El Baharia Primary	Construction of classrooms (replacement)	216,000
35. Anas Ebn Malek (El Maasara Prep. -Boys)	Construction of W.Cs & patching classrooms	40,000
36. El Maasara Prep. Girls	Patching of classrooms & W.Cs	15,000
37. El Maasara El Mahata Primary	Patching of classrooms & W.Cs	35,000
38. El Nasr Primary	Construction of classrooms & W.Cs	117,000
39. Arab Rashed Primary	Construction of W.C and patching classrooms	40,000
40. Tarek Ebn Zeyad Primary	Construction of classrooms.	112,500
41. Helwan Secondary - Girls	Upgrading & patching classrooms & W.Cs	40,000
42. Hammamat Helwan Prep. - Girls	Patching classrooms & W.Cs	20,000
43. Tarek Ebn Zeyad Prep. - Girls	Construction of classrooms & patching existing ones	122,500
44. Arab Ghonem Primary	Patching classrooms & W.Cs	5,000
45. El Tallae in Tebbin Prep.	Construction of classrooms & patching existing ones	152,500
46. Hekr El Tebbin Primary	Construction of classrooms & patching existing ones	152,500
47. 15th of May Industrial - Girls	Construction of classrooms	132,500
	TOTAL	3136,000

Section II

Health Facilities

1. Policies and Standards of Public Health :

Following are the policies and standards of Public Health as per Alexandria Governorate Health Dept. in 1983.

- a. Average number of beds in each hospital is 200. One hundred beds are first established then the other hundred.
- b. Maximum number of beds per hospital is 400.
- c. The number of beds fluctuates between 35 and 40 per 10,000 persons in the population served.
- d. 4 hospitals per 200,000 persons.
- e. One health unit for each 10,000 persons.
- f. One urban health unit consisting of an out-patient clinic, a school health unit, a health office and a mother/child care center for each 50,000 persons.

2. Health Facilities :

(Table H-2)

3. Deficiencies, Shortages and Development Potential in Health Services:

- a. Deficiency of medical equipment.
- b. Deficiency of allocated land.

The efficiency level of health services can be raised through:

- 1- Supplying the health facilities with the required equipment.
- 2- Periodic maintenance of health facilities.
- 3- Supplying the medical equipment with spare parts.
- 4- Conducting training courses for doctors and technicians.

4. Needs Assessment and Estimated Cost :

(Table H-3)

The total estimated cost amounts to L.E. 1,553,125.

SUMMARY OF BASIC DATA AND OBSERVATIONS FOR
PUBLIC HEALTH FACILITIES

Governorate : Cairo
District : Helwan

Date Prepared: 1988

FACILITY		OUT-PATIENT					IN-PATIENT					FACILITY CONDITION (1)								EXP. POT. (2)	
NO.	NAME	SERVICE AREA	AVE. PATNS /MO*	PHYSICIAN TECH. STAFF	NURSES Oth. STAFF	TREATMENT	AVE. PATNS /MO*	AVERAGE STA*	No. BEDS	PHYSICIAN TECH. STAFF	NURSES Oth. STAFF	TREATMENT	BUILDING	PHARMACY	EMERG. ROOM	ILLUMINATION	TREATM. ROOMS	OPERAT. ROOMS	WATER SEWER		M.C.'S
1	New General Helwan Hospital	Helwan Tebbin	1195	140 / 7	78 / 65	Gynecology/Ophthalmology/Orthopedic Surgery/Pediatrics		7	165	140 / 7	78 / 65	Same	E	E	E	A	E	E	A	E	H
2	Psychiatric Hospital	The Whole country	50 / 60	32 / 3	65 / 70	Psychiatrics/Addiction Treatment	30	2 months	600	32 / 3	65 / 70	Same	E	A	E	C	-	-	E	D	H
3	Helwan Fever Hospital	The Whole country	150	19 / 6	39 / 57	All types of Fevers	60	17 days	170	19 / 6	39 / 57	Fevers	E	A	-	A	-	-	A	E	H
4	Old General Helwan Hospital	Helwan/El Tebbin	170	45 / 5	37 / 59	Medicine/Surgery/Urology E.N.T.	20	14 days	87	45 / 5	37 / 59	Same	E	A	-	A	-	E	E	E	H
5	El Tebbin Central Hospital	El Tebbin Kafr Elk	50 / 60	30 / -	11 / 8	General Diseases	25	7 days	24	30 / -	11 / 8	Surgery/Medicine/Pediatrics/Gynecology	E	A	-	E	E	E	E	E	N
6	15th of May Hospital	15th of May City	100	150	60	General Diseases	25	7 days	200	Same Out-Patient		Surgery/Medicine/Gynecology/Pediatrics	E	A	A	A	-	A	E	E	H
7	Hammam Helwan El Nabateya	A.R.E.	15	4 / 25	15 / 25	Pneumonia Arthritis Paralysis	30		15	4 / 25	15 / 25	Pneumonia Arthritis Paralysis handicapped	E	-	-	A	-	-	E	E	H

NOTES: (1) Facility condition: - A (Good), E (Fair), D (Poor), C (Serious)
(2) Expansion potential: - H (Horizontal), V (Vertical), N (No)

Governorate : Cairo
District : HelwanSUMMARY OF BASIC DATA AND OBSERVATIONS FOR
PUBLIC HEALTH FACILITIES

Date Prepared: 1969

NO.	FACILITY NAME	SERVICE AREA	OUT-PATIENT				IN-PATIENT					FACILITY CONDITION (1)								EXP. PGT. (2)	
			AVE. PATNS /DAY	PHYSICIAN TECH. STAFF	NURSES CH. STAFF	TREATMENT	AVE. PATNS /DAY	AVERAGE STAY	NO. BEDS	PHYSICIAN TECH. STAFF	NURSES CH. STAFF	TREATMENT	BUILDING	PHARMACY	EMERG. ROOM	ILLUMINATION	TREATM. ROOMS	OPERAT. ROOMS	WATER SEWER		N.C.'S
6	El Masasen Medical Center	El Masasen Area	20	15 -	15 -	Handicaped General Diseases							C	C	-	C	C	-	C	C	H
9	Arab Ghoneh Medical Center	Arab Ghoneh	50	3 -	1 -	General Diseases							A	A	A	A	A	-	A	A	H
10	El Set Khadra Medical Center	Helwan	200	15/-	20 / -	General Diseases							B	A	-	A	E	-	C	E	V
11	Helwan Chest Dispensary	Helwan	200	7/-	1 -	Chest & T.B							C	A	-	D	A	-	A	C	H
12	El Marajik Rural unit	El Tebbin	100	4/2	4 / 3	School Health Diseases / Child Care							A	B	B	B	B	-	A	E	N
13	1st Helwan health office	Helwan		2/-	7 / -	vaccination							A	-	-	A	-	-	A	A	N
14	2nd Helwan health office	Helwan		1/-	1 / 6	vaccination							B	-	-	A	-	-	C	C	H
15	1st El Tebbin health office	El Tebbin		1/-	2 / -	vaccination							A	-	-	A	-	-	A	A	H
16	2nd El Tebbin health office	El Tebbin		1/-	1 / 2	vaccination							B	-	-	A	-	-	C	D	N
17	The School health group in El Masasen	Helwan	120	1/-	2 / 4	Preventive Medicine							C	A	-	E	E	-	C	C	N
NOTES: (1) Facility condition - A (Good), B (Fair), C (Poor), D (Serious)																					
(2) Expansion potential - H (horizontal), V (vertical), N (No)																					

MULTI-YEAR CAPITAL IMPROVEMENTS PROGRAM

Governorate : Cairo
District : Helwan

HEALTH FACILITIES

Date Prepared: 1989

Facility Title	Description of Improvement	Total Estimated Cost (LL)
- New Helwan Hospital	- Construction of an Out-Patient clinic Upgrading operation room-repairs of sanitary drainage	127,500
- Psychiatrics Hospital	- Construction & equipping of kitchen&laundry - maintenance of W.C.s	110,000
- Helwan Fever Hospital	- Equipping of operation theatre, X-Ray room and Lab.	400,000
- Old Helwan Hospital	- Equipping the operation theatre standby - Generator.	200,000
- El Tebbin Central Hospital	- Construction of an Out-Patient clinic & emergency room & internal sections	140,625
- 15th May Hospital	- Construction of Dr's Hostel, renovation and upgrading of W.Cs & sanitary drainage	110,000
- Helwan Mineral Springs	- Renovation & upgrading of the existing building & chalets in addition to the construction of 3 chalets (units)	150,000
- El Masaken Medical Center	- Regular & sanitary repairs for the building & W.C.s	40,000
- Arab Ghoneim Medical Center	- Construction of an internal section and equipping the dental clinic	35,000
- El Set Khadra Medical Center	- Regular patching & equipment.	120,000
- Helwan Chest Dispensary	- Regular&Sanitary patching of the building&W.C.s	50,000
- El Marajik Rural unit	- Equipping the lab.	30,000
- 1st Helwan Medical Office	- Medical equipment & Office furniture.	20,000
- 2nd Helwan Medical Office	- Regular & Sanitary patching	5,000
- 1st El Tebbin Health Office		
- 2nd El Tebbin Health Office	- Regular & Sanitary patching	10,000
- School Health Group in El Masaken	- Regular & Sanitary patching	5,000
	TOTAL	1,553,125

Section III

Youth Facilities

1. Standards:

- a. One youth center per 10,000 persons.
- b. The typical youth center should occupy approximately 5.5 feddan.
- c. Each center includes a swimming pool.
- d. Provide facilities to serve 80% of the district's youth. It's assumed that the other 20% will use facilities in private clubs.

2. Youth Facilities:

(Table Y-2)

3. Needs Assessment and Estimated Cost:

(Table Y-3)

The total estimated cost amounts to L.E. 545,000.

PUBLIC YOUTH CENTERS

SURVEY SUMMARY & BASIC DATA AND OBSERVATIONS

Governorate : Cairo
District : Helwan

Date Prepared: 1985

NO.	F A C I L I T Y						F A C I L I T Y C O N D I T I O N (1)						EXPANSION POTENTIAL (2)	
	NAME	TYPE OF FACILITY	ACTIVITIES PROVIDED	MEMBERSHIP	APPROXIMATE AREA SERVED	APPROXIMATE POPULATION SERVED	BUILDING	EQUIPMENT	W.C.	LIGHTING	PLAYGROUND	WATER/SEWER		SURROUNDING AREA
1	New Helwan Youth Center	Club	Sporting-Cultural & Social	3000	West Masara Helwan	4,000	A	A	A	A	A	A	E	H/V
2	East Helwan Youth Center	Club	Sporting, Cultural & Social	1500	El Ezba El Khabla, East Helwan El Ezba El Baharia	3,000	B	C	C	C	C	C	C	V
3	El Tebbin Youth Center	Club	Sporting, Cultural & Social	513	El Marazik	650	B	C	C	C	B	C	B	V
4	15th of May Youth Center	Club	Sporting, Cultural & Social	300	May Area	3,000	B	B	C	E	C	C	E	V/H
5	Helwan Sporting Club.	Club	Sporting and Social	150	Helwan & 6th Districts	1,500	E	C	B	A	A	B	E	N
6	Manshiet Naser Club	Club	Sporting, Social & Cultural	1300	Manshiet Naser El Hoda City, Manshiet Madinet Helwan, Farid Zaki Division	15,000	B	-	C	C	E	B	E	N
7	Arab Rashed Club.	Club	Sporting, Social & Cultural	350	Arab Rashed, Manshiet Bawal Abd El Naser	3,500	A	B	E	B	A	D	E	V
8	Kafr El Eiw Club	Club	Sporting, Social & Cultural	300	Kafr Eiw	3,000	C	B	C	A	A	D	E	V/H
9	Ezbet El Walda Club	Club	Sporting, Social & Cultural	210	Manshiet Helwan El Gaddida Ezbet El Walda	2,000	C	B	D	D	D	D	E	V
<p>NOTES: (1) Facility condition - A (Good), B (Fair), C (Poor), D (Serious)</p> <p>(2) Expansion potential - H (horizontal), V (vertical), N (No) - units of sq</p>														

PUBLIC YOUTH CENTERS

SURVEY SUMMARY & BASIC DATA AND OBSERVATIONS

Governorate : Cairo
District : Helwan

Date Prepared: 1969

NO.	F A C I L I T Y						F A C I L I T Y C O N D I T I O N (1)							EXPANSION POTENTIAL (2)
	NAME	TYPE OF FACILITY	ACTIVITIES PROVIDED	MEMBERSHIP	APPROXIMATE AREA SERVED	APPROXIMATE POPULATION- SERVED	BUILDING	EQUIPMENT	W.C.	LIGHTING	PLAYGROUND	WATER/ SEWER	SURROUNDING AREA	
10	Hadeek Helwan Club	Club	Sporting & Cultural	200	Hadeek Helwan El Hoda City	2,000	A	-	B	A	A	-	-	N
11	Helwan El Balad Club	Club	Sporting, Cultural & Social	350	Helwan El Balad, Manshiet Gasa, Mad El Maser		C	D	D	C	C	D	B	V
12	Arab Ghonea Club	Club	Sporting, Cultural & Social	350	Arab Ghonea	3,500	A	-	C	C	B	-	B	H
13	Helwan El Kebleya Club	Club	Sporting, Cultural & Social	300	Helwan El Kebleya & Baharia & East Helwan	3,000	A	-	A	A	F	A	C	V
14	15th of May Club	Club	Sporting & Social	300	15th of May	3,000	A	A	A	A	A	A	A	H-V
15	El Kawazeh City Club	Club	Sporting & Social	600	El Kawazeh City East Helwan	6,000	F	D	C	C	E	C	E	H
16	Helwan General Club	Club	Sporting & Social	3000	East Helwan, Esbat El Bahria	30,000	A	D	C	A	E	E	E	V
<p>NOTES: (1) Facility condition - A (Good), B (Fair), C (Poor), D (Serious) (2) Expansion potential - H (horizontal), V (vertical), N (No) - units of m²</p>														

MULTI-YEAR CAPITAL IMPROVEMENTS PROGRAM

YOUTH FACILITIES

Governorate : Cairo

District : Helwan

Date Prepared: 1989

Youth Facility	Description of Improvement	Total Estimated Cost (LE)
- El Tebbin Industrial Youth Center	- Construction of a 2nd level on top of the administrative building & another on top of kindergarten building & Complete the locker rooms.	85,000
- East Helwan Youth Center	- Renovation & patching of the theatre & W.Cs	35,000
- Helwan El Gadida Youth Center	- Construction of a kindergarten & completing the youth haste swimming pool	120,000
- 15th of May Youth Center	- Construction of a gate - regular & Saitary repairs.	5,000
- Helwan El Kablya Sporting Club	- Construction of a kindergarten & workshop.	20,000
- Arab Ghonem Club	- Regular & sanitary patching	5,000
- Helwan Sporting Club	- Regular & sanitary patching	5,000
- Manshiet Waser Club	- Construction of W.C & gate & regular patching	50,000
- Arab Rasheid Sporting, Social & Cultural Club	- Construction of a workshop & a library	15,000
- Kafr El Elw Club	- Regular & Sanitary patching	5,000
- Manshiet Helwan El Gadida Club (Ezbet El Walda)	- Regular & Sanitary patching and construction a fence	35,000
- Kadaek Helwan Sporting Club	- Completing the Club building & patching W.Cs	15,000
- Etchad Helwan El Balad Sporting & Social Club	- Construction of an administrative building & patching existing building	15,000
- 15th of May Youth Club	- Completing the swimming pool and equipment	10,000
- El Mawazafin City Club	- Construction of an administrative building & halls, children's library & extending the utilities.	45,000
- Helwan General Club	- Construction of an administrative building & activity halls & swimming pool.	80,000
	TOTAL	545,000

SOURCE OF TABLES

Table

Sources

E-2 & E-5

District

H-2 & H-3

District

Y-2 & H-3

District

E-3 & E-4

Wilbur Smith Associates