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LOCAL DEVELOPMENT II URBAN PROJECT

Submitted to
USAID / CAIRO

Submitted by
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in association with

PUBLIC ADMINISTRATION SERVICE
DEVELOPMENT CONSULTING OFFICE

DELOITTE HASKINS AND SELLS
ENGINEERING AND GEOLOGICAL
CONSULTING OFFICE

Needs Assessment Report
For
Educational, Health & Youth Facilities
El Ganaien District - Suez Governorate

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

Introduction

Introduction:

1. Location:

El Ganaien district is one of Suez Governorate's districts. It has potential for future urban planning as it extends 42 km. until Ismailia Governorate boundaries.

The district includes 4 kisms:

- El Ganaien kism
- El Gablaiaat kism
- Kabrit kism
- Geaifa kism

The district's boundaries are as follows:

- On the North: El Siel bridge.
- On the East: Eioun Mousa .
- On the South: El Hawise.
- On the West: El Moahda road.

2. Area:

The area of the district is about 760 Km2.

3. Population:

The population of the district is 70,000 persons approximately.

4. Report Components:

This report includes three section:

- 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 20 students of the first 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 Primary or Preparatory school is 18.
The minimum number of classrooms for Secondary school is 18 to 24.

2. Educational Facilities:

(Table E-2)

3. School Shifts:

- a. (6) Schools (43%) operate one shift only.
- b. (6) Schools (43%) operate 2 shifts.
- c. (2) Schools (14%) operate 3 shifts.

4. Educational Facilities Status:

(Table E-3)

5. Student Density and Needs for Classrooms:

(Table E-4)

6. Expected Future Increases:

The expected future increase is 2.7% annually.

7. Deficiencies and Shortages in the Educational Services:

- a. Absence of land assigned to the educational services.
- b. Scarcity of vacant land.
- c. Absence of financial resources to purchase land if available.
- d. The limited expansion ability does not cover the projected increases.

Schools, Physical Condition
Summary Sheet

Governorate: Suez
District : Ganaien

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	5	1	3	-	1									1	3	-	1	16	32
Primary / Preparatory	6	2	3	1	-									2	3	1	-	-	28
Preparatory	2	2	-	-	-									2	-	-	-	-	35
Secondary / Technical	1	-	1	-	-									-	1	-	-	-	16
Special Education																			
TOTAL	14	5	7	1	1									5	7	1	1	16 Classrooms	111 Classrooms

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)

Year	1st Shift		2nd Shift		3rd Shift		Total	1st Shift	2nd Shift	3rd Shift	Total
	Students	Teachers	Students	Teachers	Students	Teachers					
2000-01	100	10	100	10	100	10	300	30	30	30	90
2001-02	110	11	110	11	110	11	330	33	33	33	99
2002-03	120	12	120	12	120	12	360	36	36	36	108
2003-04	130	13	130	13	130	13	390	39	39	39	117
2004-05	140	14	140	14	140	14	420	42	42	42	126
2005-06	150	15	150	15	150	15	450	45	45	45	135
2006-07	160	16	160	16	160	16	480	48	48	48	144
2007-08	170	17	170	17	170	17	510	51	51	51	153
2008-09	180	18	180	18	180	18	540	54	54	54	162
2009-10	190	19	190	19	190	19	570	57	57	57	171
2010-11	200	20	200	20	200	20	600	60	60	60	180
2011-12	210	21	210	21	210	21	630	63	63	63	189
2012-13	220	22	220	22	220	22	660	66	66	66	198
2013-14	230	23	230	23	230	23	690	69	69	69	207
2014-15	240	24	240	24	240	24	720	72	72	72	216
2015-16	250	25	250	25	250	25	750	75	75	75	225
2016-17	260	26	260	26	260	26	780	78	78	78	234
2017-18	270	27	270	27	270	27	810	81	81	81	243
2018-19	280	28	280	28	280	28	840	84	84	84	252
2019-20	290	29	290	29	290	29	870	87	87	87	261
2020-21	300	30	300	30	300	30	900	90	90	90	270
2021-22	310	31	310	31	310	31	930	93	93	93	279
2022-23	320	32	320	32	320	32	960	96	96	96	288
2023-24	330	33	330	33	330	33	990	99	99	99	297
2024-25	340	34	340	34	340	34	1020	102	102	102	306
2025-26	350	35	350	35	350	35	1050	105	105	105	315
2026-27	360	36	360	36	360	36	1080	108	108	108	324
2027-28	370	37	370	37	370	37	1110	111	111	111	333
2028-29	380	38	380	38	380	38	1140	114	114	114	342
2029-30	390	39	390	39	390	39	1170	117	117	117	351
2030-31	400	40	400	40	400	40	1200	120	120	120	360

1. No. of Classes
 2. No. of Teachers
 3. No. of Students
 4. No. of Classrooms
 5. No. of Classrooms to be Constructed

Total No. of Students = $\frac{\text{No. of Classrooms} \times \text{No. of Seats}}{\text{Average Density}}$
 = No. of Classrooms \times No. of Seats \div Average Density

No. of Classrooms to be Constructed = $\frac{\text{Total No. of Students} - \text{No. of Existing Classrooms} \times \text{No. of Seats}}{\text{Average Density}}$

No. of Classrooms to be Constructed = $\frac{\text{Total No. of Students} - \text{No. of Existing Classrooms} \times \text{No. of Seats}}{\text{Average Density}}$

No. of Classrooms to be Constructed = $\frac{\text{Total No. of Students} - \text{No. of Existing Classrooms} \times \text{No. of Seats}}{\text{Average Density}}$

- 1. The total number of students in the District will be calculated based on the declared rate of growth.
- 2. The total number of students in the District will be calculated based on the declared rate of growth.
- 3. The total number of students in the District will be calculated based on the declared rate of growth.
- 4. The total number of students in the District will be calculated based on the declared rate of growth.
- 5. The total number of students in the District will be calculated based on the declared rate of growth.

NOTE:
 The District will take into consideration the human resource available in the District to meet the demand for additional classrooms. If the District is unable to meet the demand, it will have to construct additional classrooms.

- 1. No. of Classrooms
- 2. No. of Classrooms
- 3. No. of Classrooms

8. Development Potential in Educational Services:

- a. From (Table E-4) the need for classrooms is apparent, according to the expected future increases (Item 6) for the next five years. Thus we conclude that the total number of classrooms to be constructed in order to face the expected increases cancel the 2nd & 3rd shifts with classroom density maintaining the standards rate is (145) classrooms, that is approximately (29) classrooms per year.
- b. Increase the funds allocated for maintenance.
- c. Provide adequate equipment & furniture for labs. and workshops.
- d. Construct additional classrooms according to the expansion potential.
- e. Raise the efficiency level of the teachers by means of holding training courses.
- f. Use modern educational aids.

9. Needs Assessment and Estimated Cost:

(Table E-5)

The total estimated cost amounts to L.E.1,443,000

MULTI-YEAR CAPITAL IMPROVEMENTS PROGRAM

EDUCATIONAL FACILITIES

Governorate : Suez

District : Ganaien

Date Prepared: 1989

Facility Titles	Description of Improvement	Total Estimated Cost (LE)
1. El Shahid Abu Zeid Primary School - in Kabrit El Mafarka	Complete restoration of the school, carpentry works, painting the classrooms, changing the tiles of the ground floor, repair of W.C.s and internal sanitary & potable water pipes.	9,000
2. El Ganaien Primary & Preparatory School.	Restoration of W.C.s & changing the sanitary and potable water pipes, changing the tiles of the ground floor, painting of blackboards and classrooms and repair of wooden doors.	8,000
3. Said El Beshtely Primary & Preparatory School.	Restoration of W.C.s & changing the internal sanitary and potable water pipes, painting of blackboards and classrooms, changing the tiles of the ground floor, repair of wooden doors and renovation of electric network (wires, lamps and transformers).	9,000
4. Abu Bakr El Sedik Primary School.	Restoration of W.C.s, internal sanitary and potable water pipes, replacement of the ground floor tiles (0.20 X 0.20), renovation of the electric network (lamps, wires), painting the blackboards and classrooms.	9,000
5. El Shaloufa Preparatory School.	Construction of 16 classrooms.	160,000
6. Shandoura Primary & Preparatory School.	Construction of 12 classrooms + restoration of the school building + painting and restoration of W.C.s, painting of classrooms & blackboards, repair of doors & windows.	180,000
7. El Shahid Mohamed Khater Primary & Preparatory School.	Restoration of W.C.s + changing the internal sanitary and potable water pipes + changing the tiles of the ground floor + painting the blackboards & classrooms + repair of wooden doors & windows.	9,000
8. Osman Ebn Affan Primary School	Construction of 4 classrooms, construction of 2 bathrooms for the boys & girls.	80,000
9. Eioun Mousa Primary School.	Construction of a preparatory school (16 complete class rooms), construction of a primary school (16 complete classrooms).	280,000

MULTI-YEAR CAPITAL IMPROVEMENTS PROGRAM

EDUCATIONAL FACILITIES

Governorate : Suez

District : Ganaïen

Date Prepared: 1989

Facility Titles	Description of Improvement	Total Estimated Cost (LE)
10. Amer Village Primary & Preparatory School	Replacement of the external sanitary pipes, painting of the classrooms & the blackboards, changing the tiles of the ground floor, repair of windows and doors.	7,000
11. Kabrit Preparatory School-in Kabrit El-Mafareka.	Construction of 16 classrooms, restoration of W.C.s (sanitary and potable water pipes), painting of blackboards and classrooms (after the war aggression), painting the facade + replacement of the ground floor tiles.	180,000
12. Ahmad Handy Primary School+El Shaloufa Preparatory School	Construction of 16 classrooms.	160,000
13. El Gablaïat Preparatory School.	Construction of 12 classrooms + construction of a workshop and 6 classrooms above it.	180,000
14. Suez Industrial & Mechanical Secondary School.	Construction of internal sanitary drainage line connecting the school to the main drainage pipe. Construction of 16 classrooms.	172,000
	Total	1,443,000

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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 to 40 per 10,000 persons in the population served.
- d. 4 hospitals per 200,000 persons.
- e. One health center for each 10,000 persons.
- f. One urban health center consisting of an out-patient clinic, a school health center, 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 Facilities:

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

The efficiency level of the health services can be raised by means of:

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

4. Needs Assessment and Estimated Cost:

(Table H-3)

The total estimated cost is L.E.14,400.

Facility Name: [Illegible]
 Address: [Illegible]

EMERGENCY RESPONSE PLAN FOR [Illegible]
 [Illegible]

Date Prepared: [Illegible]

ID	Description	Type	ACQUAINTANCE			Special	Hazardous	EMERGENCY SERVICES			Fire	Police	Ambulance	Hazardous	Emergency	Community	Fire	Police	Ambulance	Hazardous	Emergency	Community	
			1	2	3			4	5	6													7
1	The Health Unit of [Illegible]	Public	1	1	1	1	General																
2	Health Unit of [Illegible]	Public	1	1	1	1																	
3	Health Unit of [Illegible]	Public	1	1	1	1																	
4	Health Unit of El Salvador - El Salvador	Public	1	1	1	1																	
5	Health Unit of [Illegible]	Public	1	1	1	1																	
6	El Salvador Health Unit	Public	1	1	1	1																	
7	El Salvador Health Unit (El Salvador)	Public	1	1	1	1																	

NOTES: 1) Facility contacts - 2) Special services - 3) Fire (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) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)

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MULTI-YEAR CAPITAL IMPROVEMENTS PROGRAM

Governorate : Suez
 District : Ganaïen

HEALTH FACILITIES

Date Prepared: 1989

Facility Title	Description of Improvement	Total Estimated Cost (LE)
E: Shendoura Health Unit (El-Ganaïen)	Restoration and painting of the building repair of the sanitary drainage network. Purchase of 3 fans & 1 autoclave apparatus.	14,400
TOTAL		14,400

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Section III
Youth Facilities

1. **Standards:**

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

2. **Youth Facilities:**

Table (Y-2)

3. **Needs Assessment & Estimated Cost:**

Table (Y-3)

The total estimated cost amounts to L.E.608,000.

FACILITY INFORMATION

CAFETERIA - FOOD SERVICE - RECREATION

15

Governorate : El-Dak
 District : El-Dokki

Date Reported : 1988

No.	FACILITY				FACILITY CONDITION								EXPANSION POTENTIAL
	NAME	TYPE OF FACILITY	ACTIVITIES PROVIDED	MEMBERSHIP	APPROXIMATE AREA SERVED	APPROXIMATE POPULATION SERVED	BUILDING	EQUIPMENT	W.C.	LIGHTING	PLUMBING	WATER SUPPLY	
1	El-Breidya Youth Center	Sports, Culture, Social	100 Activities	100	El-Breidya		C	C	C	C	C	C	C
2	Kabrit Youth Center	*	*	250	Kabrit	B	C	D	D	D	D	D	H
3	Aren Village Youth Center	*	*	250	Aren Village	C	C	C	C	C	C	C	F
4	El-Badoush - El-Motaker	*	*	200	El-Badoush El-Motaker El-Badoush	C	B	F	C	B	B/C	C	H
5	Shandouha Youth Center	*	*	200	Shandouha, Kabrit, El-Bahara	-	C	C	C	C	C	B/C	E
6	Genifa Village Youth Center	*	*	320	Genifa	F	B	B	B	B	B/C	B	H
7	El-Bahasen Youth Center	*	*	200	El-Bahasen El-Dokki El-Dokki	F	B	F	F	F	F	F	F

NOTES: (1) Facility condition: A (Good), B (Fair), C (Poor), D (Terrible)
 (2) Expansion potential: H (Horizontal), V (Vertical), N/A (No increase)

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MULTI-YEAR CAPITAL IMPROVEMENTS PROGRAM

YOUTH FACILITIES

Governorate : Suez

District : El Ganaïen

Date Prepared: 1989

Youth Facility	Description of Improvement	Total Estimated Cost (LE)
1. El Gablaïat Village Youth Center	1. Construction of a fence for the playgrounds 2. Renovation of the soccer playground + planting grass 3. Upgrading of the center lighting 4. Replacement of the facility's administrative building tiles	25,000 75,000 10,000 3,000
2. El Shaloufa Youth Center	1. Construction of a fence for the center 2. Construction of potable water network	30,000 10,000
3. Amer Village Youth Center	1. Construction of a fence for the center. 2. Construction of the Social & Cultural building.	30,000 30,000
4. Sha'doura Youth Center	1. Construction of a fence for the center. 2. Construction of the Administrative, Social and Cultural building.	30,000 30,000
5. El Ganaïen Youth Center	1. Construction of a fence for the facility 2. Grassing and renovating the soccer playground 3. Construction of a grassed volleyball playground 4. Upgrading the center and reintensifying the playgrounds lighting.	25,000 75,000 20,000 10,000
6. Kabrit Village Youth Center	1. Renovation and grassing of the soccer playground 2. Upgrading the center & playgrounds lighting 3. Construction of basketball playground.	60,000 10,000 25,000
7. Genifa Youth Center	1. Renovation and grassing of the soccer playground. 2. Upgrading the lighting of the center and its playgrounds. 3. Construction and tiling of a basketball playground.	75,000 10,000 25,000
Total	608,000	

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