

- PD ABH 839 -

LOCAL DEVELOPMENT II URBAN PROJECT FINAL REPORT APPENDICES

Prepared for
USAID/CAIRO AND ARAB REPUBLIC OF EGYPT



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Prepared by
WILBUR SMITH ASSOCIATES

in association with

PUBLIC ADMINISTRATION SERVICE
DEVELOPMENT CONSULTING OFFICE

DELOITTE AND TOUCHE
ENGINEERING AND GEOLOGICAL
CONSULTING OFFICE

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Appendix 1

**INVESTMENT PLAN PROFILES
FOR INDIVIDUAL GOVERNORATES**

TABLE 10
LOCAL DEVELOPMENTS
URBAN PROJECT
INVESTMENT PLAN STATUS
(L.E.M.)

AS OF 1 Dec, 1992

GOVERNORATE/ DISTRICT	L 0 II FT 1987			L 0 II FT 1989			L 0 II FT 1990			L 0 II FT 1991			
	CONSTRUCTION TOTAL NO.	Per Start.	Financ. Alloc. (L.E.)										
CALDO													
GOVERNORATE	9	0	3264	100	0	5435	100	17	6	99	6204	96	0
MELNAR	12	0	305	100	1152	91	16	0	100	1069	64	0	
MELIOPOLIS	9	0	345	100	618	100	21	0	100	1260	100	6	
WEST	10	0	340	100	1072	100	8	0	100	705	95	6	
ARDEP	11	0	296	100	999	98	15	0	100	902	73	16	
CENTRAL	8	0	307	100	1403	100	18	0	100	1099	100	7	
WALIT	11	0	300	100	1061	100	11	0	100	2145	100	5	
EL ANABARA	18	0	510	100	1165	100	21	0	100	1074	95	0	
ZETIQU	7	0	413	100	3573	100	21	0	100	1554	93	15	
SOUTH	12	0	413	100	1344	100	23	1	100	407	91	0	
MISR EL RADIAN	9	0	420	100	1021	100	10	0	100	949	100	9	
ROD EL FARAG	12	0	444	100	1639	100	14	0	100	1006	100	23	
SINDARA	10	0	396	100	517	100	7	0	100	503	100	18	
MASR CITY	0	0	0	0	0	0	9	0	100	563	100	15	
EL ZANIA	0	0	0	0	1076	100	17	0	100	1275	100	19	
EL SAHAN	0	0	0	0	310	100	12	0	100	441	100	21	
MAQI	0	0	0	0	687	100	13	0	99	832	95	21	
EL SAHEL	0	0	0	0	0	0	23	0	100	1047	98	28	
AIR SHARS	0	0	0	0	0	0	0	0	0	0	0	0	
TEBREEN	0	0	0	0	0	0	0	0	0	0	0	0	
WAKRIEL MASER	0	0	0	0	0	0	0	0	0	0	0	0	
SUB-TOTAL	138	0	6032	100	2527	100	208	1	100	23199	98	338	
MAESMARIYA													
GOVERNORATE	8	0	1946	100	10	100	11	0	100	3159	91	14	
EASTERN	7	0	355	100	3202	100	30	1	98	1409	99	25	
RIQ-TOWN	9	0	285	100	17	0	100	1295	100	24	0	100	
WEST	7	0	300	100	229	100	17	0	100	1279	100	15	
ARDETA	24	0	720	100	1349	100	30	0	100	1464	100	23	
MORTALAH	7	0	300	100	1463	100	15	0	100	1594	100	18	
GORCIS	4	0	191	100	3235	100	15	0	100	1045	100	23	
SUB-TOTAL	66	0	4080	100	149	0	100	10417	100	136	1	100	
BEIN													
GOVERNORATE	50	0	379	100	1477	100	23	0	100	2508	99	11	
NORTH	11	0	489	100	1177	100	16	0	99	1204	100	16	
SOUTH	8	0	382	100	1010	100	14	0	100	1183	100	15	
WEST	14	0	416	100	1533	100	24	0	100	1404	100	24	
CENTRAL	11	0	390	100	819	100	20	0	100	961	100	18	
EL WARAN	0	0	0	0	0	0	8	0	100	643	100	17	
SUB-TOTAL	50	0	2135	100	4017	100	107	0	100	7103	100	101	

11725 74 11725 74 11725 74 11725 74

TABLE 16
LOCAL DEVELOPMENT II
UPRAB PROJECT
INVESTMENT PLAN STATUS
(L.E.000)

AS OF 1 Dec. 1971

GOVERNORATE/ DISTRICT	L O II FY 1977			L O II FY 1980			L O II FY 1989			L O II FY 1990			L O II FY 1991											
	CONSTRUCTION TOTAL NO. Start.	FINANCIAL Alloc (L.E.)	Per Inpnea.																					
QALIMIA																								
GOVERNORATE	5	0	100	181	100	100	465	100	100	91	1721	89	2	0	100	2011	100	100	0	0	0	0	0	0
EAST	11	0	100	408	100	100	1053	100	100	0	911	100	16	0	96	1580	95	95	7	0	45	1574	41	41
WEST	13	0	100	400	100	100	1236	100	100	0	1798	100	16	0	100	913	100	100	7	0	73	1379	65	65
SUB-TOTAL	29	0	100	989	100	100	2754	100	100	96	3950	95	34	0	99	6503	98	98	14	0	58	2864	52	52
PRIF SAIB																								
GOVERNORATE	4	0	100	569	100	100	0	0	0	0	746	100	7	0	100	737	100	100	5	2	60	510	83	83
PREF FOUAD	6	0	100	258	100	100	0	0	0	0	276	100	7	0	100	408	100	100	3	0	97	325	95	95
EL ARAB	6	0	100	791	100	100	0	0	0	0	419	99	0	0	0	0	0	0	2	0	100	283	54	54
EAST	7	0	100	307	100	100	0	0	0	0	376	100	6	0	100	404	100	100	7	1	27	247	100	100
EL BANNAH	15	0	100	498	100	100	0	0	0	0	657	100	14	0	99	1006	95	95	9	0	97	370	86	86
EL BANNAH	6	0	100	375	100	100	0	0	0	0	573	100	8	0	100	457	100	100	7	4	41	377	46	46
SUB-TOTAL	46	0	100	2294	100	100	0	0	0	0	2997	100	42	0	100	3013	98	98	33	7	71	2016	78	78
SUEZ																								
GOVERNORATE	7	0	100	311	100	100	0	0	0	0	676	100	8	0	100	644	96	96	4	2	10	467	9	9
SUEZ	12	0	100	324	100	100	0	0	0	0	290	100	6	0	100	283	100	100	4	1	47	284	29	29
EL ARDEEN	11	0	100	375	100	100	0	0	0	0	794	100	11	0	85	750	89	89	7	0	85	531	60	60
ATAKAM	11	0	100	310	100	100	0	0	0	0	391	100	13	0	100	410	100	100	4	0	58	407	38	38
EL GARIBEN	11	0	100	312	100	100	0	0	0	0	370	100	7	0	100	362	100	100	7	4	37	258	33	33
SUB-TOTAL	52	0	100	1589	100	100	0	0	0	0	2479	100	45	0	96	2477	95	95	26	7	45	2227	33	33
TOTAL	381	0	100	19119	100	100	41191	100	100	633	53372	98	708	4	99	52470	95	95	341	47	64	29372	68	68

TABLE 1A
LOCAL DEVELOPMENT II
URBAN PROJECT
INVESTMENT PLAN STATUS
(L.E.000)

PAGE NO: 1

AS OF 1 Dec, 1992

TOTAL LD II PROGRAM

GOVERNORATE/ DISTRICT	CONSTRUCTION			FINANCIAL	
	TOTAL	Wct	Per	Alloc	Per
CAIRO					
GOVERNORATE	39	6	87	17323	92
HELWAN	70	0	99	5003	90
HELIOPOLIS	61	1	99	3391	100
WEST	58	6	97	3677	98
ABDEEN	86	1	99	4068	89
CENTRAL	57	1	99	4671	98
WAILY	61	0	100	5411	100
EL MATAREYA	89	0	100	4292	98
ZEITOUN	69	0	94	5805	94
SOUTH	83	2	95	4273	93
MISR EL KADIMA	63	1	99	4242	93
ROD EL FARAG	83	2	99	5175	99
SHOUBRA	54	0	92	3442	94
MASR CITY	30	0	99	2082	98
EL JAWIA	63	0	97	4997	95
EL SALAM	40	4	87	2439	71
HAADI	51	0	98	3508	92
EL SAHEL	70	3	96	3149	97
AIN SHAMS	17	1	98	793	97
TEBBEEN	15	0	90	1057	85
MANCHIET MASER	6	1	85	250	85
SUB-TOTAL	1165	29	95	89047	95
ALEXANDRIA					
GOVERNORATE	46	2	89	11737	85
EASTERN	95	3	96	5246	94
MID-TOWN	79	0	90	5183	92
WEST	74	1	100	4505	95
AMREYA	112	0	97	5745	92
MONTAZAH	72	0	99	5619	96
EGHROK	72	0	98	4154	95
SUB-TOTAL	550	6	95	42189	91
GIZA					
GOVERNORATE	50	1	98	7403	97
NORTH	70	0	100	4922	99
SOUTH	61	1	96	4756	97
WEST	99	1	99	5782	94
CENTRAL	76	1	99	3655	100
EL HARAM	31	0	100	2469	97
SUB-TOTAL	397	4	98	28987	97

TABLE IA
 LOCAL DEVELOPMENT II
 URBAN PROJECT
 INVESTMENT PLAN STATUS
 (L.E.000)

PAGE NO: 2

AS OF 1 Dec, 1992

TOTAL L D II PROGRAM

GOVERNORATE/ DISTRICT	CONSTRUCTION			FINANCIAL	
	TOTAL	Not	Per	Alloc	Per
QALIUBIA					
GOVERNORATE	12	0	97	4378	96
EAST	57	0	84	5485	82
WEST	69	0	93	5176	91
SUB-TOTAL	138	0	91	15039	89
PORT SAID					
GOVERNORATE	25	2	92	2593	96
PORT FOUAD	22	0	99	1268	99
EL ARAB	14	0	100	993	87
EAST	32	1	86	1274	100
EL MANAKH	45	0	99	2531	96
EL DANAHY	30	4	90	1732	90
SUB-TOTAL	168	7	94	10390	95
SUEZ					
GOVERNORATE	31	2	75	2298	72
SUEZ	33	1	89	1180	83
EL ARBEEIN	41	0	92	2408	88
ATAKAH	34	0	91	1626	82
EL GANAIEH	37	4	86	1260	86
SUB-TOTAL	176	7	86	8772	82
TOTAL	2594	53	95	194424	93

Appendix 2

INVESTMENT FUND DISTRIBUTION FORMULA

Fund Distribution Formula

Distribution of funds to the districts in the urban governorates participating in the project should be made in accordance with a formula utilized to distribute LD I NUS funds.

The formula uses certain factors and indicators describing demographic, socio-economic and infrastructure characteristics. The indicators selected for the formula are as follows:

- Population Size
- Population Density per square kilometer
- Rate of Illiteracy
- Average Household Size
- Number of Housing Units not served by a Sewer System
- Number of Housing Units without Electricity

To utilize these indicators, certain assumptions had to be made. These assumptions are:

- The larger the population and the higher the density in a District, the more services needed to accommodate that district.
- The larger the size of the average household and the greater the number of illiterates in the District, the greater the number of educational facilities required.
- The greater the number of occupied units not served by sewage and electricity, the more impoverished the district.

Using the formula indicators and recognizing the assumptions made, the following steps were taken:

- Each of the indicators were reduced to a percentage for each district as shown below:

$$\frac{\text{Indicator Amount in the District}}{\text{Total Indicator Amount For Governorate}} \times 100$$

- The percentage for each indicator for each district was added together to arrive at a total.
- A weighted average was computed for each district by dividing the total (noted above) for each district into the sum of the totals for all the districts in the governorate.
- Each district was assigned a numerical rank such as 1, 2, or 3 etc based on the results of the weighted average.
- Forty percent of the total annual allocation was distributed to each district in the governorate on an equal basis.
- The remaining 60% of the total annual allocation was distributed according to the weighted average.
- Adding the 40% figure to the 60% figure provides the total annual allocation for each district.

Appendix 3

**CRITERIA FOR QUANTIFICATION
OF "BENEFICIARIES"**

LD II Beneficiaries

The answer to the question of who benefits from LD II sub-projects is a complicated and somewhat subjective one. It is important to try to understand the overall beneficiary impact of the LD II Project, as well as the contributions these sub-projects are making with respect to upgrading the quality of life in lower income neighborhoods. The insights to be gained by learning which types of sub-projects produce the greatest cost-benefits, or "payoffs" are also important.

The following general criteria were applied in making assessments:

1. Only direct beneficiaries were counted (i.e. number of children using new classrooms).
2. Recognizing that only "gross" assessments can be made in many cases, a deliberate attempt was made to err on the conservative side to avoid any overstatement of sub-projects impacts.
3. Beneficiaries were calculated on an annual basis to achieve standardization in deriving numerical totals. Daily beneficiaries were converted to annual totals by multiplying by 300 (not 365) - to recognize holidays, weekends, etc.

Beneficiary Criteria

At first it was felt that no assessment could be made concerning the magnitude of benefits: i.e. large groups benefiting to a small degree versus small groups benefiting to a large degree. However, in developing the final beneficiary criteria, it became obvious that some distinction had to be made between casual beneficiaries and in-depth beneficiaries. For example, there is a great difference between an user of a public toilet and a student in a new classroom. To this end, the following two-category beneficiary criteria have been developed.

In Depth Beneficiaries

Those users who receive daily benefits from continuous use of a facility for several months or more.

1. Education

- For new classrooms, 50 students per shift per classroom were used (governorates average density). Thus, if 10 new classrooms were built in a 3 shift school, the total number of beneficiaries would be 1500; the number of students occupying the new facilities in a given school year.
- For renovation, the number of users proportionate to the extent of the renovation (i.e. total school renovation beneficiaries would be total school population).
- For equipment, total direct users (i.e. 1000 two-student desks times 2 shifts = 4000 beneficiaries).
- For general repairs, such as drainage or water, the general school population was counted.

2. Health

- For new facilities, the number of daily users times 300 (i.e. Fever Clinic, Alex, sees 200 people per day, beneficiaries calculated on annual basis equal 60,000).
- For equipment, the number of daily users of specific services involved (i.e. burn unit, Ras El Tin Hospital times 300).
- For renovation, or additions, same criteria as for equipment.

3. Youth/Cultural/Social Centers

The number of members. If centre director specifies daily uses, users are multiplied by 300 and counted as casual beneficiaries.

4. Multi-Purpose PVO Centers

Same as Youth/Culture/Social centers.

5. Nurseries and Day Care Centers

Number of users (like schools). Thus, if nursery supports 50 children, annual beneficiaries total 50.

6. Home/Hostels

Same as nurseries.

7. Productive Units/Skills Centers (income generation)

Number of annual trainees. Thus, if skill center runs 4 courses per year for 50 persons each course, annual beneficiaries total 200.

8. Markets

Number of peddlers accommodated times 50 (average number of buyers).

9. Food Caravans

14,000 beneficiaries per unit. Although patrons can be considered on a daily basis, it was felt that the one figure of 14,000 was more reasonable due to the "repeat" visits of local buyers. This figure was obtained by establishing a "service area" for the caravans.

10. Language Laboratory (and equipment)

Number of students per day times 150 days. Criteria to be applied to laboratories in those cases where students are rotated in the use of the facilities or equipment.

11. Mineral Water Drainage

Number of residents of flats affected, time 5.5. residents per flat.

12. Electrical Cable

Number of flats affected, time 5.5 residents per flat.

13. Public Water Taps

400 persons per tap. If a 4-tap unit was installed in a neighborhood, beneficiaries would total 1,600.

14. Vertical Sewer Pipe Replacement in Public Housing

22 persons per pipe (4 flats time 5.5 average family size).

15. Water and Sewer Lines

Number of flats served times 5.5.

16. Lighting

150 persons per bracket, calculated on 25 meter spacing of brackets and average number of flats/occupants per 25 meters.

17. Paving

One to two persons per square meter, depending on density of area served. Normally, average daily traffic (ADT) times average persons per vehicle would be used, but traffic counts are virtually impossible to obtain here. Beneficiaries impact, therefore, must be transferred to local residents rather than overall users.

18. Pedestrian Bridges

Estimated number of daily users time 5, to avoid gross over counting of local beneficiaries.

Casual Beneficiaries

Those users who receive occasional non-regimented benefits from sporadic use of facilities.

1. Public Toilets - On major streets, 100 users per day times 300. Minor -----, 30 per day times 300.
2. General Pumps - Number of uses per year times population in affected area.

3. Theaters - Number of seats times numbers of uses per year.
4. Ceremonial Halls - Number of uses per year times number of persons each use.
5. Gardens - The number of daily users times 300.
6. Sewage Pumps - 500 beneficiaries per pump.
7. Multi-Purpose Service Center - (Some combination of fire fighting equipment, ambulance service, telephone, telegraph post office, etc). Number of residents in affected area.

When possible, an attempt was made to obtain beneficiary data from facility directors and managers. In many cases, the information was already available through the NUS Needs Assessment Survey, carried out during the past year for all educational, health and youth/cultural facilities. Beneficiary estimates were then reviewed by senior staff in Greater Cairo and Alexandria and final beneficiary counts computed.

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Appendix 4

SPECIAL PROJECTS

INTERIM REPORT ON SPECIAL PROJECT
for
THE DEVELOPMENT OF SUEZ GOVERNORATE ROAD DIRECTORATE

1. INTRODUCTION

1.1 General

The "proposal for the Development of Suez Governorate Road Directorate" details seven objectives necessary for the reorganization and training of the Suez Governorate Roads Directorate and the implementation of a Road Street Maintenance Management System. The seven objectives were as follows:

- a. Remove existing 10-year old hot-mix asphalt plant from present location next to Suez Road Directorate's Garage and Maintenance Workshop and replace it with suitable fixed or mobile batch plants.
- b. Construct new workshop, asphalt laboratory, storeroom, repair shed and offices at the present site.
- c. Equip a small asphaltic-concrete and road materials testing laboratory.
- d. Provide necessary workshop equipment and tools.
- e. Repair inefficiently operating heavy equipment by contract through private sector firms.
- f. Purchase spare parts as required for serviceable machines and heavy equipment.
- g. Train and reorganize the Roads Directorate during a period of five months by means of one expatriate and one Egyptian national road maintenance specialist.

1.2 Budget

The estimated budget for the project was:

Item	L.E.	USAID Grant	GOE Contibut.	\$
Asphalt Plant	470,000			
Laboratory Equipment	28,000			
Workshop Equipment	10,000			
Spare Parts	32,000			
Equipment Repair	45,000			
Civil Works	200,000			
Staffing	35,000			28,800
Contingency	9,258			
Grand Total	829,258	789,770	39,488	28,800

1.3 Chronology

o July 1988

A proposal was submitted to USAID for the Development of the Suez Governorate Road Directorate. The GOE contribution was released on July 19, 1989. The USAID grant was released one month later.

o February 1990

Work started on site.

2. PROGRESS TO MARCH 1992

- 2.1 Construction - 95 percent complete (boundary wall remains)
- 2.2 Training - Complete
- 2.3 Laboratory Equipment - Complete
- 2.4 Vehicle Repair - Complete
- 2.5 Asphalt Plant - 90 percent complete. The erection of the refurbished units is being delayed due to a dispute between the governorate and the contractor over the 'origin' of a gearbox delivered to site.
- 2.6 Expenditure

I T E M	INITIAL ALLOCATION		REVISED ALLOCATION		FUNDS SPENT	
	L.E.	USD	L.E.	USD	L.E.	USD
- Industrial Equipment			10,000		0	
- Repair of Asphalt Mix Plant	502,000		305,000		37,824	
- Procurement of Spare Parts	10,000		10,000		5,690	
- Procurement of Lab Equipment	28,000		37,102		35,128	
- Construction Cost	200,000		243,100		243,100	
- Heavy Equipment Repair Cost	45,000		45,000		39,950	
- Heavy Equipment Spare Parts			100,000		53,656	
- Staffing Cost	34,796	43,178	0	43,178		68,313
- Construction of a Boundary Wall			124,000		350	
- Engineering Office Equipment			15,000		14,706	
- Contingency	9,462		40,234			
- Total Initial Allocation	829,258					
- Bank Interest	100,178					
TOTAL AVAILABLE FUNDS	929,436	43,178	929,436	43,178	430,404	68,313

2.7 Products

- o A report on Training and Reorganization of the Suez Road Directorate
- o A Road Maintenance Management System Operations Manual
- o A report on Issues and Economics of Road Maintenance in Egypt

3. SUMMARY

- 3.1** Six of the seven objectives listed in Section 1.1 have been successfully achieved; completion of the first - the asphalt plant - is anticipated shortly.
- 3.2** Despite non completion to date of the asphalt plant, this has probably been the most successful of the four special projects undertaken in the LD II Urban Program as the training component has been replicated in each of the other Urban Governorates.

INTERIM REPORT ON SPECIAL PROJECT
for
CIP VEHICLE REPAIR - ALEXANDRIA

1. INTRODUCTION

1.1 General

The Alexandria CIP Vehicle Repair Program was divided into the following activities:

- Establish an improved spare parts Inventory Control System
- Preparation of bidding documents for one time upgrade repair of the CIP fleet.
- Assist Alexandria Governorate in preparing funding request for submission to the Urban Steering Committee.
- Assist in monitoring the repair contract and spare parts usage.
- Analyze and make recommendations relative to establishment of a comprehensive maintenance program.

1.2 Budget

The estimated budget for the project was:

<u>Item</u>	<u>L.E.</u>
Purchase of Locally Produced Spare Parts	414,000
Contract for One Time Repair Upgrade of CIP Fleet	308,400
Annual Maintenance Contract for CIP Fleet for FY 88/89	238,000
Potential Renewal of Annual Contract for FY 89/90	<u>57,000</u>
Total	1,027,400

1.3 Chronology

- o October 1987
Submission of a report to USAID.
- o Augustus 1989
Money allocated to Alexandria.

- o 1989/1990
 - (i) Spare parts purchased.
 - (ii) Bid process completed.
- o 1991

'Negotiated' repair contracts were executed.
- o July 1991

Letter from Alexandria Governorate to USAID recommending a modification to the previously agreed schedule.

2. PROGRESS TO MARCH 1992

2.1 Inventory Control

The establishment of a spare parts Inventory Control System was achieved in 1989. Note: the 'Kardex' system adopted at that time is currently being computerized.

2.2 Documents

Bid documents were originally prepared for the one time upgrade repair of the CIP fleet in 1989 but the response to these, by the repair industry, proved disappointing. Documents were revised in 1990 and recourse to Article 5 of Law 9 was made to enable 'negotiated' contracts to be drawn up with 'Sole Agents.'

2.3 Spare Parts

Locally produced spare parts were procured in 1989. The ready availability of such items as tires, batteries and filters contributed to a significant increase in 'on-the-road' availability.

2.4 Repairs

The major repair works contracted in 1991, successfully returned previously deadlined vehicles to the road. A dramatic increase in repair costs between 1987 and 1991, coupled with further deterioration of the vehicles, severely limited the number of vehicles which could be repaired under the contract. The governorate did in fact have to cancel the proposed annual maintenance contract in favor of additional repair contracting. Fortunately, this did not prove too detrimental as construction of new facilities, improved equipment and staff training, generally proved adequate to meet the governorate's needs.

2.5 Expenditure

I T E M	INITIAL ALLOCATION		FUNDS SPENT	
	L.E.	USD	L.E.	US\$
- Local Spare Parts	465,400	0	464,422	0
- Repair of Equipment and Vehicles	613,400	0	483,965	0
TOTAL	1,078,800	0	948,387	0

3. SUMMARY

3.1 This special project has undoubtedly been a success in that the purchase of spare parts and the repair of vehicles both contribute significantly to the program objectives. When compared to the initial goals however, it does not fare quite so well as the number of vehicles repaired was adversely affected by the delay in executing the repair contracts.

3.2 If future repair projects of this nature are considered, it may be helpful to note that:

- (i) Contracts negotiated with the sole agents proved to be less costly than those tendered
- (ii) Allocation of funds could be revised as shown:

<u>Item</u>	<u>This Special Project %</u>	<u>Future Recommended %</u>
Spare Parts	40	80
Repair (Vehicle Overhaul)	30	20
Annual Maintenance Contracts	30	NIL

Note: The TAC records show that: 60 percent are level 1, 30 percent level 2 and only 10 percent are level 3 (complete overhaul). Level 1 and 2 repairs can normally be undertaken in governorate or district facilities.

- (iii) Repair costs were effected by the source of spare parts. When imported spare parts were used, it proved cost effective to use those imported directly by the GOE (dealers tend to apply significant "mark ups").

INTERIM REPORT ON SPECIAL PROJECT
for
SOLID WASTE TRANSFER STATION - GIZA

1. INTRODUCTION

1.1 General

Transfer stations are a normal element in the solid waste collection/disposal cycle for numerous large urban conurbations worldwide. The stated object of this special project was therefore not to show the benefit of such a station, but rather to "provide experience in operating a transfer station" and "provide experience which would be useful in the design of similar transfer stations in other densely populated areas of Egypt." Benefits noted in the original proposal were that land was available, no equipment purchase was necessary, a neighborhood 'blight' could be eliminated, design criteria could be checked and the repair of inoperable equipment could be funded.

1.2 Budget

The estimated budget for the project was:

<u>Item</u>	<u>L.E.</u>	<u>£</u>
Civil Works (including design)	257,000	
Equipment Repair	30,000	
Spare Parts Procurement		160,000
Staff Training	<u>161,000</u>	<u>21,000</u>
Total	463,000	21,000

1.3 Chronology

o August 1988

A proposal was submitted to USAID for the construction of a solid waste transfer station at a 3000 m² site on the unpaved center strip of El-Boohi Street in Imbaba, Giza.

o September 1988

The ULDC approved the special project proposal presented by the Giza Governorate.

o 1989

The preliminary design for the station revealed previously unconsidered engineering problems e.g. a main sewer liner ran under the site.

o February 1990

The decision was taken to move the site from Imbaba.

o March 1990

New site in Sudan Street selected - Site clearance commenced.

- o July 1990
TAC met with the chairman of the GCBA to review alternative plans for a transfer station in Sudan Street.
- o November 1990
Attempt made to resolve problems of squatters on the site and get definitive maps.
- o 1991
 - (i) Detailed design was completed, contract documents were prepared, work on site started.
 - (ii) Construction proceeded slowly. The TAC continually pressed the contractor to apply more resources to the project.
 - (iii) In May '91, it was noted that "According to City Council and GCBA Sources, some inhabitants have complained that the project would cause environmental problems in the area."
 - (iv) Work on site was suspended in September 1991.

2. PROGRESS TO MARCH 1992

2.1 Construction

60 to 70 percent complete. The contractor's suspension order has been lifted and the City Engineer has informed the TAC that works will now be completed expeditiously.

2.2 Expenditure

I T E M	ALLOCATION		FUNDS SPENT	
	L.E.	USD	L.E.	USD
Civil Works	249,350	-	182,036	-
Consultant	7,481	-	1,475	-
Training	16,109	27,837	NIL	NIL
Equipment Repair	15,587	-	15,587	-
Spare Parts	170,000	-	170,000	-
Contingency	13,423	-	NIL	-
Total Initial Allocation	471,950	-	-	-
Bank Interest	37,851	-	NIL	-
TOTALS	509,801	27,837	369,098	NIL

2.3 Organization/Training

NIL.

3. SUMMARY

3.1 It is anticipated that:

- (a) the contract will now be satisfactorily concluded;
- (b) the governorate will not need to refund the money already expended.

3.2 Public awareness and/or cooperation must be sought when transfer station sites in neighborhoods such as those which border El-Sudan Street, are being considered.

3.3 It is not possible to draw conclusions at this time as the project has not yet become operational.

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INTERIM REPORT ON SPECIAL PROJECT
for
A SYSTEM FOR REPAIRING SOLID WASTE CONTAINERS - CAIRO

1. INTRODUCTION

1.1 General

The Cairo Governorate, in an attempt to improve collection of household solid wastes, placed approximately six thousand 2-yd³ capacity and one thousand 3-yd³ capacity solid waste containers in various locations throughout Cairo's sixteen districts. These containers are irregularly emptied and, as a consequence, catch fire and suffer damage from corrosion by moisture and gases of decomposing organic material. Rough handling is also a factor in the damaging process. Cairo Cleaning and Beautification Authority estimated in 1988 that some 50% of the total number of containers placed in the field were in need of major or minor repair.

This project therefore proposed:

- o A system for routine inspection of containers, as well as for in situ repair where possible.
- o A workshop for such repair at the central workshop.
- o Assignment of a hydraulic-lift collection truck to each zone.

In addition, this system recommended dispatch of irreparable containers to the nearest scrap heap (sale of such scrap material was strongly recommended as a revenue source for the Cleaning and Beautification Authority).

1.2 Budget

The estimated budget for the project was:

<u>Item</u>	<u>L.E.</u>
Civil Works (including Design)	20,500
Mechanical Equipment	432,500
Workshop Equipment	<u>122,500</u>
Total	575,500

1.3 Chronology

- o August 1988

A proposal for a System for Repairing Solid Waste Containers in the Cairo Governorate was submitted to the Governor.

o November 1989

Cairo Governorate wrote to USAID informing them that their consulting office had revised the specifications.

o 1990

Serious engineering problems complicated the choice of a site and consideration was given to cancelling the project ref. trip reports.

- March 18, 1990: Item 1; noted that despite the ideal location of the proposed site at Zawia El-Hamra Central Garage, the shed allocated showed signs of severe structural failure. "The Director of the Project Department promised to arrange the required structural tests as soon as possible." Note: the original proposal was for a site within the central workshop but CCBA officials determined that this would be detrimental. The structurally deficient sheds were their proposal.
- April 18, 1990: the CCBA Chairman gave his agreement for the structural tests.
- May 6, 1990: the CCBA Project Dept. Director wrote to the Chairman recommending approval of a consultant engineer to undertake tests and prepare a report.
- June 7, 1990: The TAC held a follow up meeting with the CCBA Chairman and Project Director to ascertain progress of the structural testing. Eng. Tawfik said that he had received a letter from the Sanitary Drainage Authority informing them "that a new project will cut into a portion of the site."
- June 11-13, 1990: site visits confirmed that the new sewer would not interfere with the proposed workshop. The CCBA Chairman was again requested to invite structural engineering consultants to submit offers for the necessary structural tests and he was advised that "USAID will withdraw the budget allocated for the Project if the implementation procedures of the special project continue to show no progress."
- July 31, 1990: General Khayri Zaki stated that the Governor was "not pleased with the delay of project implementation" and "it is required to start implementation of the project procedures immediately." He was reminded that a structural analysis was still required.
- August 14, 1990: General Khayri Zaki said "that he had sent the specification and bid documents to the contracting department requesting that a consultant be hired to perform the structural analysis required for the reinforced concrete skeleton of the existing building."

o February 1991

As the structural analysis was still not done, The TAC suggested to CCBA that they consider a site at Sayeda Nafissa. This compromise suggestion was accepted and instructions to construct the sheds was given.

o July 1991

The TAC wrote to USAID proposing a revision to the previously agreed budget for the works.

o September 1991

The CCBA Chairman wrote to USAID recommending further revision of the project.

o October 1991

The Secretary General of the Cairo Governorate wrote to USAID to show 'The Final Modification for the Project Items.'

o November/December 1991

The CCBA Chairman and the TAC wrote to USAID offering further explanation for recommended amendments and requested fund reallocation.

2. PROGRESS TO MARCH 1992

2.1 Civil Works - Completed

2.2 Mechanical - 10% Complete - The GCBA have now received permission to reallocate the resources. It is anticipated that the repair of the Truxmores and the equipping of the 2 designated trucks (with 1.5 tonne cranes) will take approximately six months.

2.3 Expenditure

I T E M	INITIAL ALLOC.		REVISED ALLOC.		FUNDS SPENT	
	L.E.	USD	L.E.	USD	L.E.	USD
- Pickups	0	127,500	0	0		
- Trucks with Cranes	0	170,225	0	0		
- Civil Works	20,800		20,000			
- Workshop Equipment	107,200		150,000		88,565	
- Forklift	40,000		0			
- Welding Transformer for Pickups	10,000		0			
- Materials for the Work	15,000		100,000		92,054	
- Collection Trucks Repair (Truxmore) and Equipping 2 Lorries with 1.5 t Crane	20,000		900,000			
- Contingency	45,186		40,906			
TOTAL	258,186	297,725	1,210,906	0	181,619	

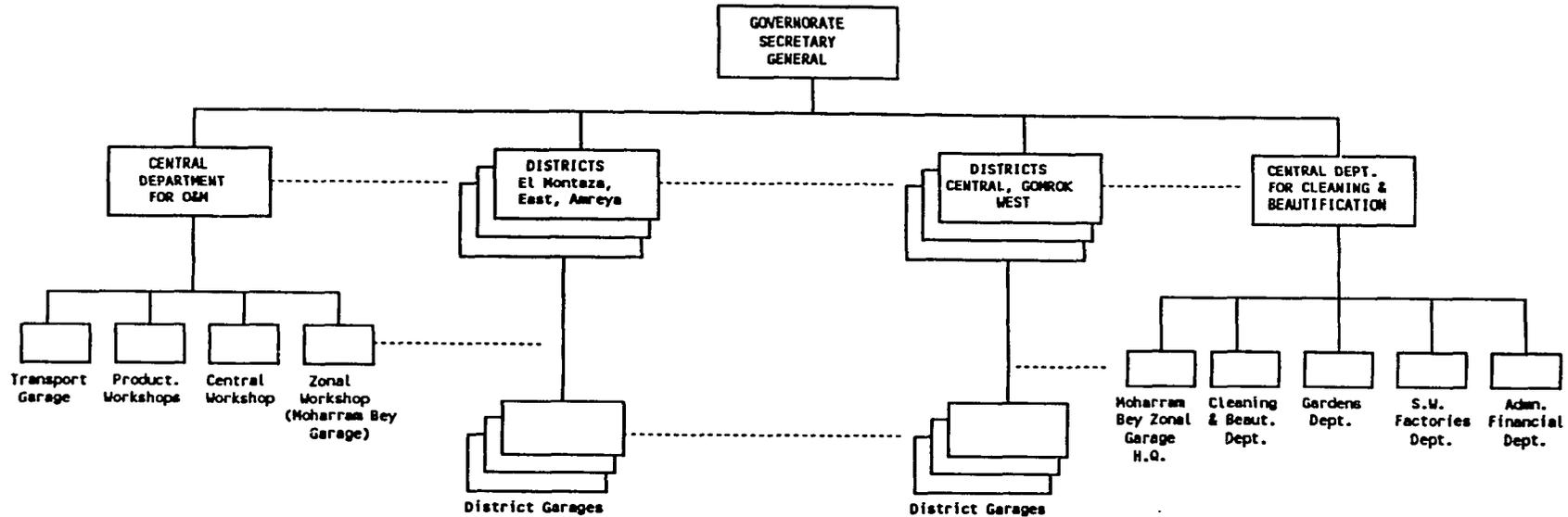
3. **SUMMARY**

- 3.1 Early problems with the original site have now been satisfactorily overcome and civil engineering works at the new site in Sayeda Nafissa have been completed.
- 3.2 (a) A system for the routine inspection of containers has not yet been implemented
- (b) A system for the inspection of 'in situ' repair is now unnecessary as all repair will be done at Sayeda Nafissa.
- 3.3 Although some very extensively damaged containers have been successfully repaired in Sayeda Nafissa, it is not possible to draw conclusions at this time as the project has not yet become fully operational.

Appendix 5

**O&M ORGANIZATION CHARTS
&
COMMUNICATION CHANNELS**

CHART 1
PROPOSED ORGANIZATION FOR
THE O&M HIERARCHY



CENTRAL WORKSHOP RESPONSIBILITIES:

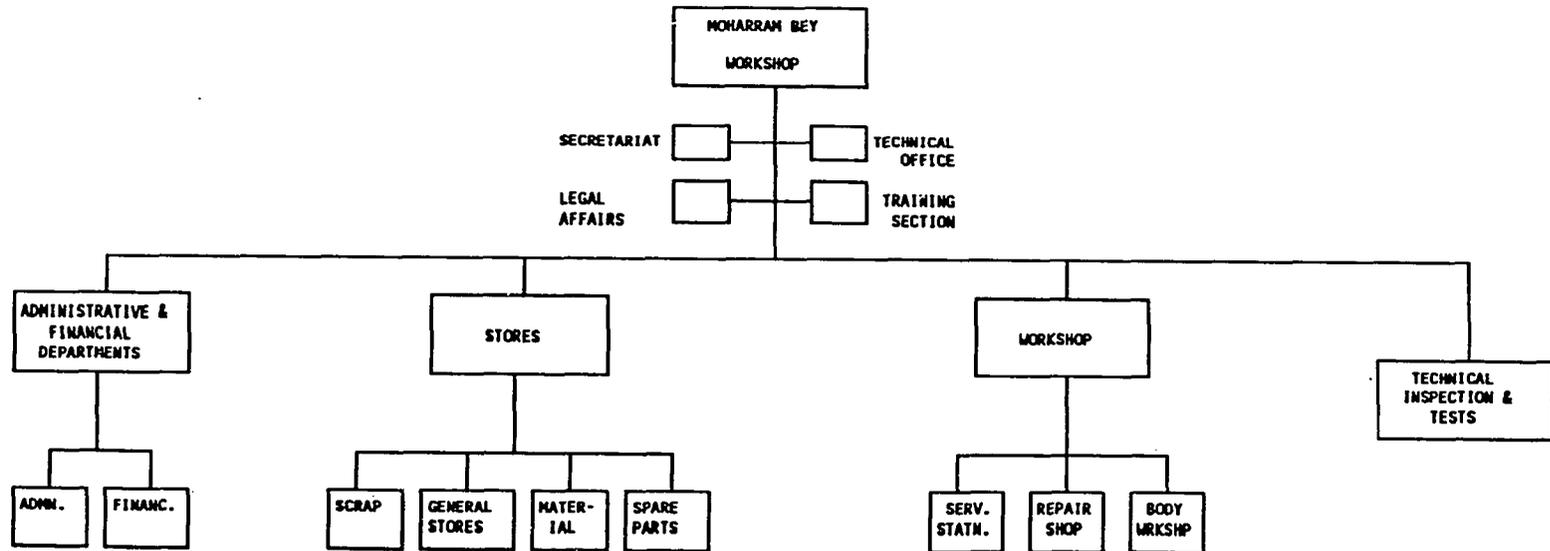
1. Develop P.M. and repair plans for all the Governorate vehicles and equipment in coordination with the Central Department for O&M, Moharram Bey Zonal Workshop, districts and other agencies in the Governorate.
2. Provide needed spare parts for level 2 & 3 (medium and major) repairs for all districts vehicles and equipment.
3. Procure needed spare parts for all P.M. and repair levels for vehicles and equipment for other Governorate agencies.
4. Do all major repairs for all districts vehicles and equipment either in the Central Workshop or in specialized workshops.
5. Do all P.M. and repair levels for all vehicles and equipment in agencies other than districts.
6. Inform districts and Moharram Bey Zonal Workshop on repair time schedule.
7. Prepare monthly reports on status, P.M., repair activities and needs. Submit to Central Dept. for O&M.

gov-hq-o/ay

MOHARRAM BEY ZONAL GARAGE H.Q. RESPONSIBILITIES:

1. Supervise and execute guarding and security measures in the Zonal Garage.
2. Manage refueling station to provide vehicles/equipment in Moharram Bey with fuels.
3. Do P.M. for all constructions in the facility.
4. Develop a fire fighting plan and do periodic inspection of fire fighting equipment and teams.

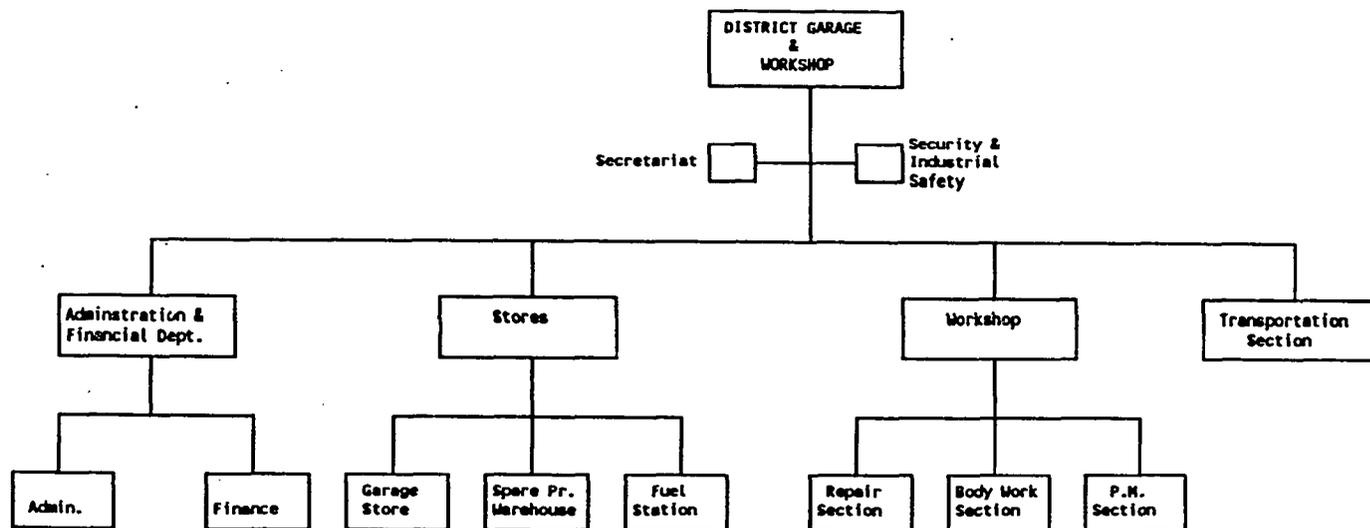
PROPOSED ORGANIZATION FOR
MOHARRAM BEY ZONAL WORKSHOP



RESPONSIBILITIES OF MOHARRAM BEY ZONAL WORKSHOPS:

1. Prepare P.M. and repair plans in coordination with districts located in Moharram Bey Zonal Garage.
2. Procure and obtain spare parts needed for P.M. and repair levels 1 & 2 (running and medium) for all vehicles and equipment in the Zonal Garage.
3. Do all P.M. levels for all vehicles and equipment in Moharram Bey Garage.
4. Do levels 1 & 2 repairs for vehicles and equipment in Moharram Bey Garage.
5. Coordinate and execute P.M. level 4 and level 2 (medium) repairs for vehicles and equipment of other districts.
6. Prepare monthly reports on status and P.M. and repair activities and needs to both the Central Department for O&M and to the Central Workshop.
7. Inform districts in Moharram Bey on P.M. and repair time schedules.
8. Inform other districts on P.M. level 4 and medium repairs time schedule.

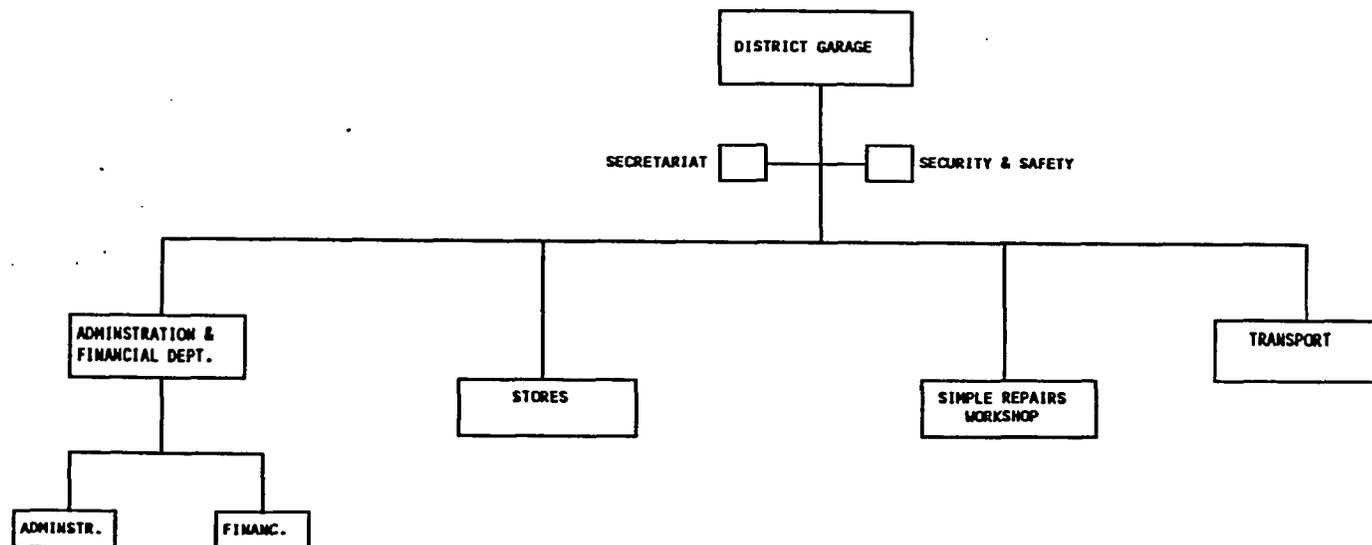
PROPOSED ORGANIZATION CHART FOR DISTRICT GARAGES
EL MONTAZA, EAST & EL AHREYA



DISTRICT GARAGE RESPONSIBILITIES

1. Execute operation plans assigned by District Chief.
2. Develop P.M. and level 1 repair plans for the District Workshop
3. Procure needed spare parts for P.M.
4. Prepare monthly reports on status and condition of District fleet and O&M needs. Report to the District Chief and the Central Dept. of O&M.
5. Do P.M. level 1, 2 and 3 for the District Fleet.
6. Do all simple and level 1 (running) repairs for the District fleet.
7. Coordinate levels 2 and 3 (medium and major) repairs and level 4 P.M. with both Moharrem Bey and Central Workshops.

PROPOSED ORGANIZATION CHART FOR DISTRICT GARAGES
CENTRAL, WEST AND GOMROK



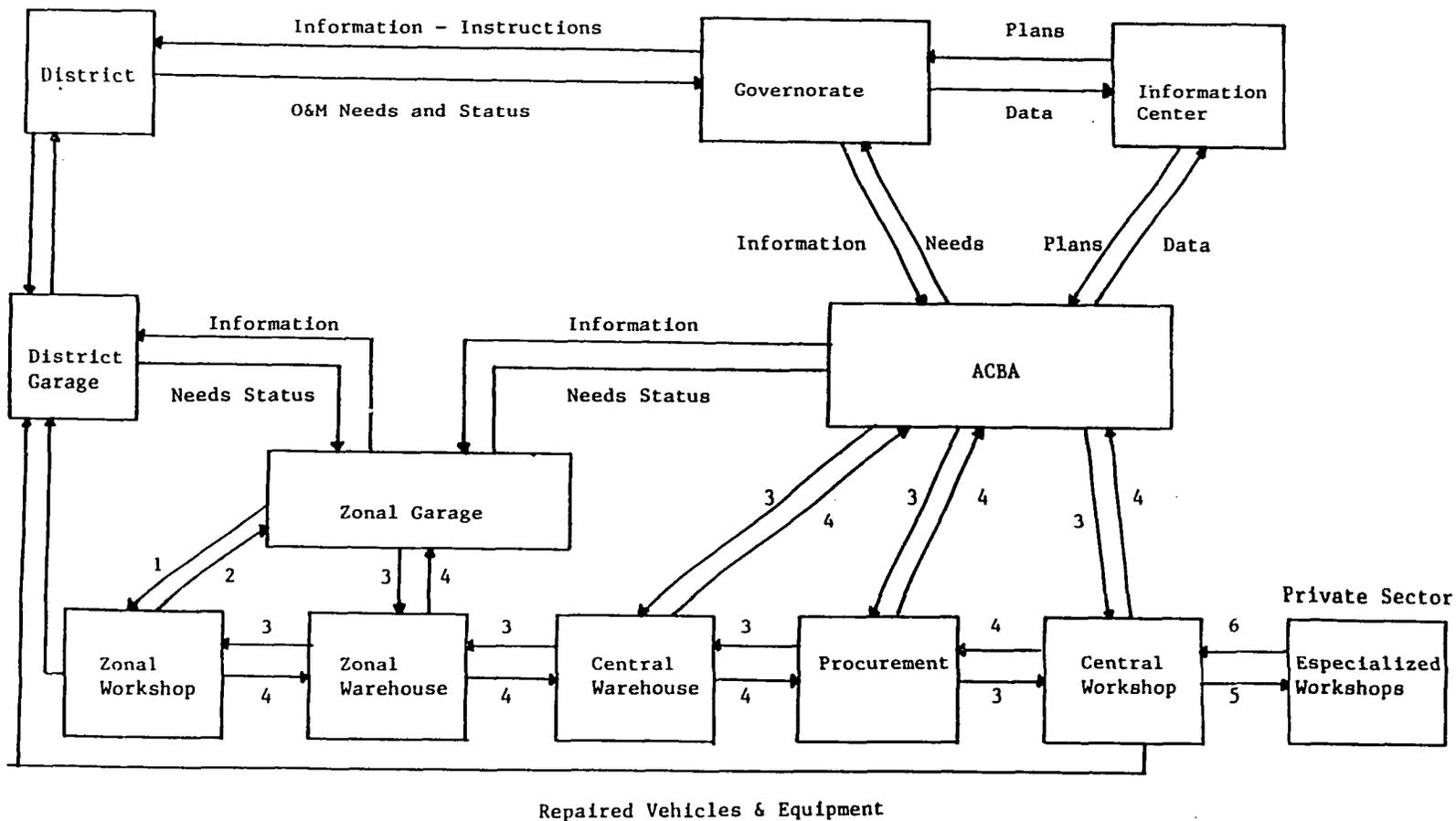
DISTRICT GARAGE RESPONSIBILITIES:

1. Execute operation plans assigned by District Chief.
2. Prepare P.M. plans and submit to Moharram Bey Zonal Workshop.
3. Prepare monthly reports on status and condition of the district fleet and O&M needs and submit to District Chief and the Zonal Workshop.
4. Do simple repairs including tire repairs, charging batteries and emergency repairs
5. Coordinate execution of P. M. and repairs with both Zonal Workshop and Central Workshop.

O&M Communication
and Reporting System; Alexandria

Key

1. Repair Schedules
2. Progress and Needs
3. Spare Parts Status and Needs
4. Repair Contracts
5. Repaired Vehicles & Equipment



Appendix 6

O&M TECHNICAL LIBRARIES

DISTRIBUTION OF REPRODUCED CATALOGUES - JUNE 1992

#	CATALOGUES		RE-PRODUCED #	CAIRO								ALEXANDRIA				GIZA		QAL	SZ	PORT SAID				OTHER	TOTAL	NOTES			
	EQUIPMENT	TYPE		C. WSH	C. GRG	MAF	MOK	* SLM	* NOZ	WAL	SHR	C. WSH	MOH BEY	AMR	MON	SHR	C. WSH	BEM SAR	C.* WSH	C. WSH	C. WSH	MAN	SHR				P. FLD		
PHASE I																													
1	IH - 2500	SP	4	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	
2	IH - 1800	SP	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16	
3	IH - 3 Volumes	SH	22	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	22	
4	IH -	OM	100	2	6	6	6	6	6	3	3	2	6	3	3	3	4	4	4	4	2	3	3	3	3	3	18	100	
5	Cummins Engine	SP	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20	
6	Cummins Engine	SM	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11	
7	Cummins Engine	SM	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11	
8	Cummins Engine	OM	50	2	2	5	5	5	5	2	2	2	5	2	2	2	4	4	4	4	2	3	3	3	3	3	1	50	
9	Cummins Engine	OM	50	2	2	5	5	5	5	2	2	2	5	2	2	2	4	4	4	4	2	3	3	3	3	3	1	50	
10	Cummins Fuel Injection	SM	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	11	
11	Ford-light-2 Volumes	SP	13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	13	
12	Ford-Heavy-2 Volumes	SP	14	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	
13	Ford-3 Volumes	SM	24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	24	
14	Ford Electric	SM	24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	24	
15	Detroit Diesel 8.2L	SP	23	2	2	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	23	
16	Detroit Diesel 8.2L	SP	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16	
17	Gradder Galion 450S	SM	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1	1	1	1	1	2		
18	NIEL (Related Equip.)	OM	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	8	
19	WAYNE(Related Equip.)	OM	22	-	2	2	2	2	2	1	1	-	2	1	1	1	2	2	2	2	2	2	2	2	2	2	2	22	
20	ELGIN(Related Equip.)	OM	14	-	2	1	1	1	1	1	1	-	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	
21	IME (Related Equip.)	OM	24	1	2	2	2	2	2	2	2	-	1	2	1	1	2	2	2	2	2	2	2	2	2	2	2	24	
TOTAL Phase I			479	22	31	35	34	35	34	14	14	19	35	16	14	14	30	30	14	12	10	7	7	7	7	7	45	479	
PHASE II																													
22	IH - 1500	SP	7	1	1	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	7	
23	IH - 1500	SM	7	1	1	-	-	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	2	7	
24	Ford - 350	SP	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	20		
25	Truxmore(Related Eq.)	SP	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16	
26	Truxmore(Related Eq.)	SM	16	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	16	
TOTAL Phase II			66	5	5	3	3	3	3	3	3	5	5	3	3	3	3	3	3	1	1	-	-	-	-	-	8	66	
TOTAL Phases I+II			545	27	36	38	37	38	37	17	17	24	40	19	17	17	33	33	17	13	11	7	7	7	7	7	53	545	

SP = SPARE PARTS

SM = SERVICE MANUAL

OM = OPERATION, MAINTENANCE

* HELD BY TAC PENDING COMPLETION OF FACILITY

Appendix 7

VEHICLE & EQUIPMENT DATA SHEETS

FUEL AND OIL MONTHLY CONSUMPTION

Governorate : _____

District : _____

Date : _____

S.N	Plate No.	Veh. Name	Type	Total Mo. Work. KM/HRS		Fuel Consumption in Liters		Oil Consumption in kg			Total Monthly Cost in L.E	Remarks
				Planned	Actual	Gasoline	Diesel	Engine	Hydraul	Brake		
Grand Total												

Fuel Oil Prices in L.E :

- Liter of Gasoline = L.E
- Liter of Diesel = L.E
- KG of Eng. Oil = L.E
- KG of Hydr. Oil = L.E
- Brake Oil = L.E

Signature : _____ Position : _____ Name : _____

FORM NO. OM-01

VEHICLE / EQUIPMENT DATA SHEET

Governorate : District : Date: / /19

I. BASIC DATA:

Vehicle/Equip. Name:	Plate No.:	VIN:
Make :	Model :	
Year Manufacture :	Date Received : / /	Engine No.:
Engine :	Type : HP :	Engine No.:
No. of Cylinders :	Cooling System :	Engine No.:
Equip. Engine :	Type : HP :	
Capacity : WT. Empty: (tons)	Loaded : (tons)	
Length : (cm) Width : (cm)	Height : (cm)	
Transmission :	Chassis No. :	
Chassis Type :		

II. CAPACITIES:

Fuel :	Tank Capacity :	(liters)
Engine Oil Type :	Eng. Oil Capacity :	(liters)
Hydraulic Oil Type :	Tank Capacity :	(liters)

III. TIRES:

No. of tires : Size :

IV. BATTERIES:

No. of Batteries : Capacity AM/HR : No. of Plates :
Volts :

V. GENERAL CONDITION:

New () Good () Poor ()
Need Repair () To be Scrapped ()

VI. MILEAGE & REPAIR:

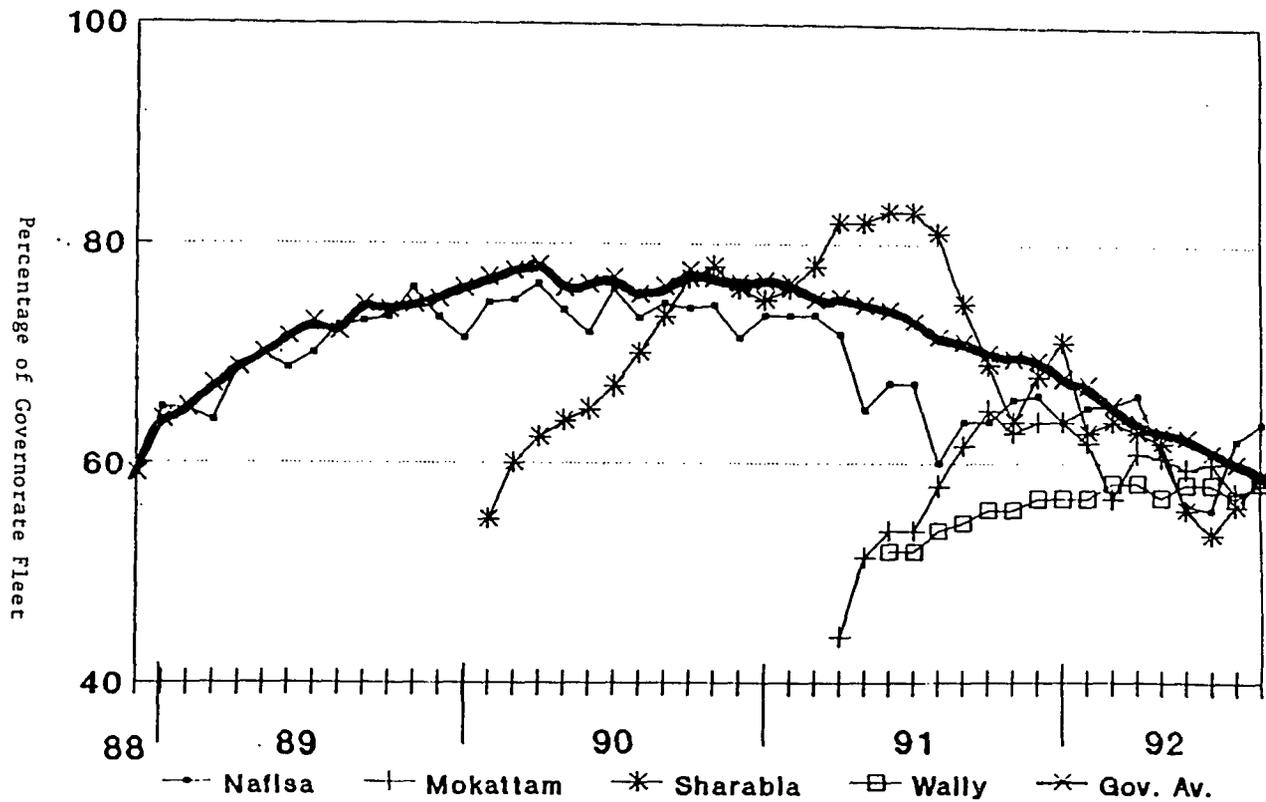
Working Hours :	(hr)	Mileage :	(km)
Last Major Repair :	/ /19	Last Medium Repair :	/ /19
Last Annual PM Performed :	/ /19		

Appendix 8

GOVERNORATE FLEET STATUS

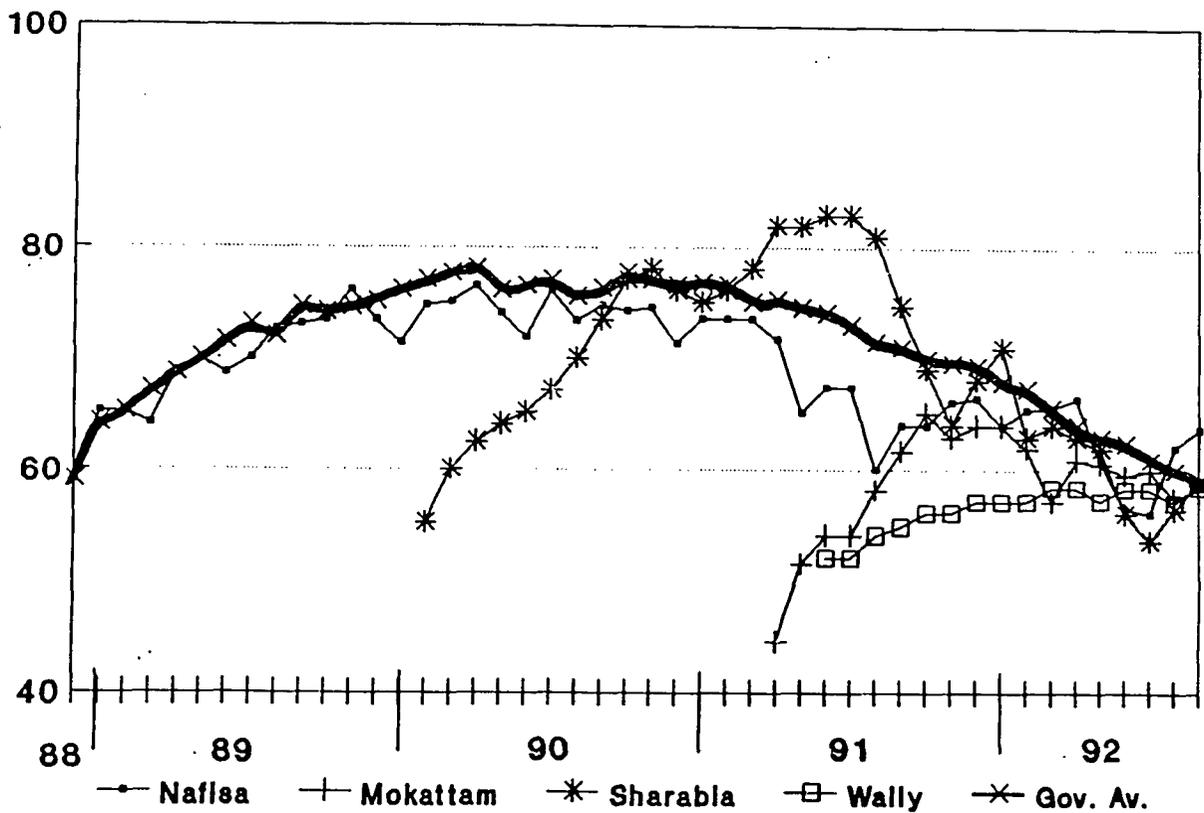
31

CAIRO GOVERNORATE "ON-THE-ROAD" AVAILABILITY

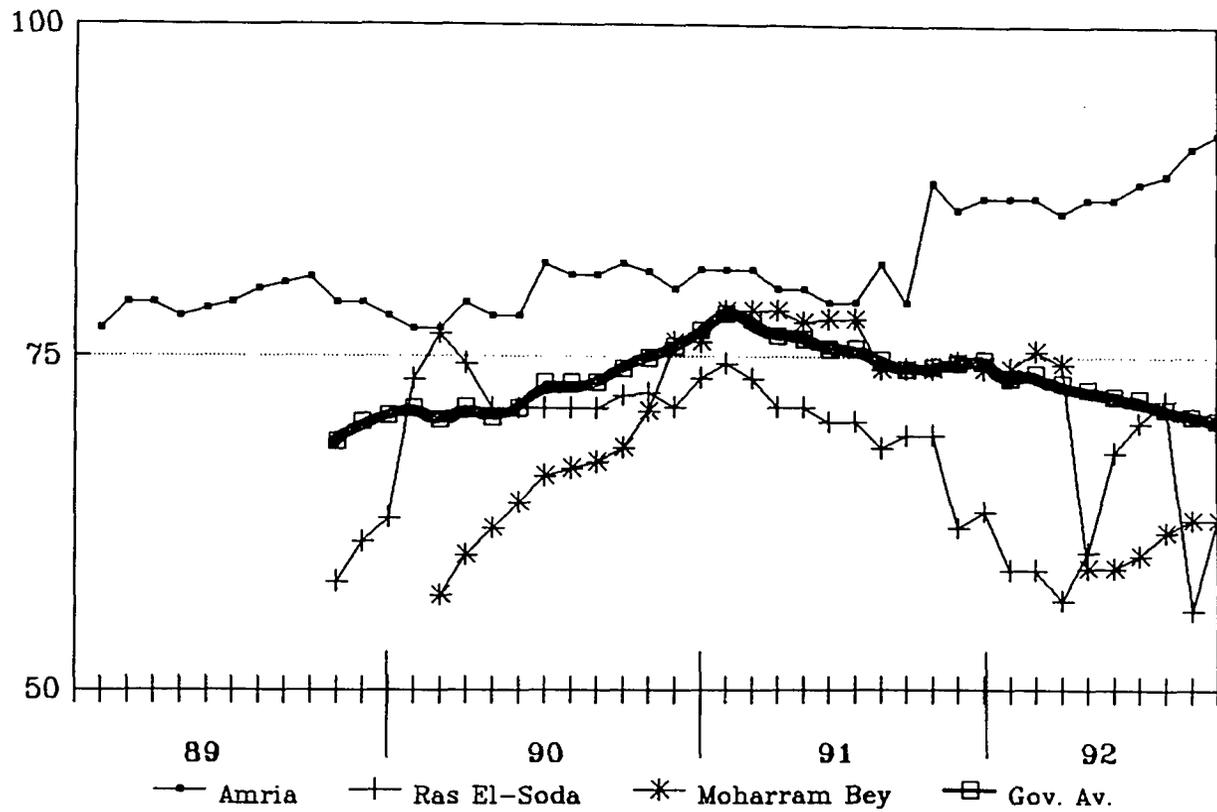


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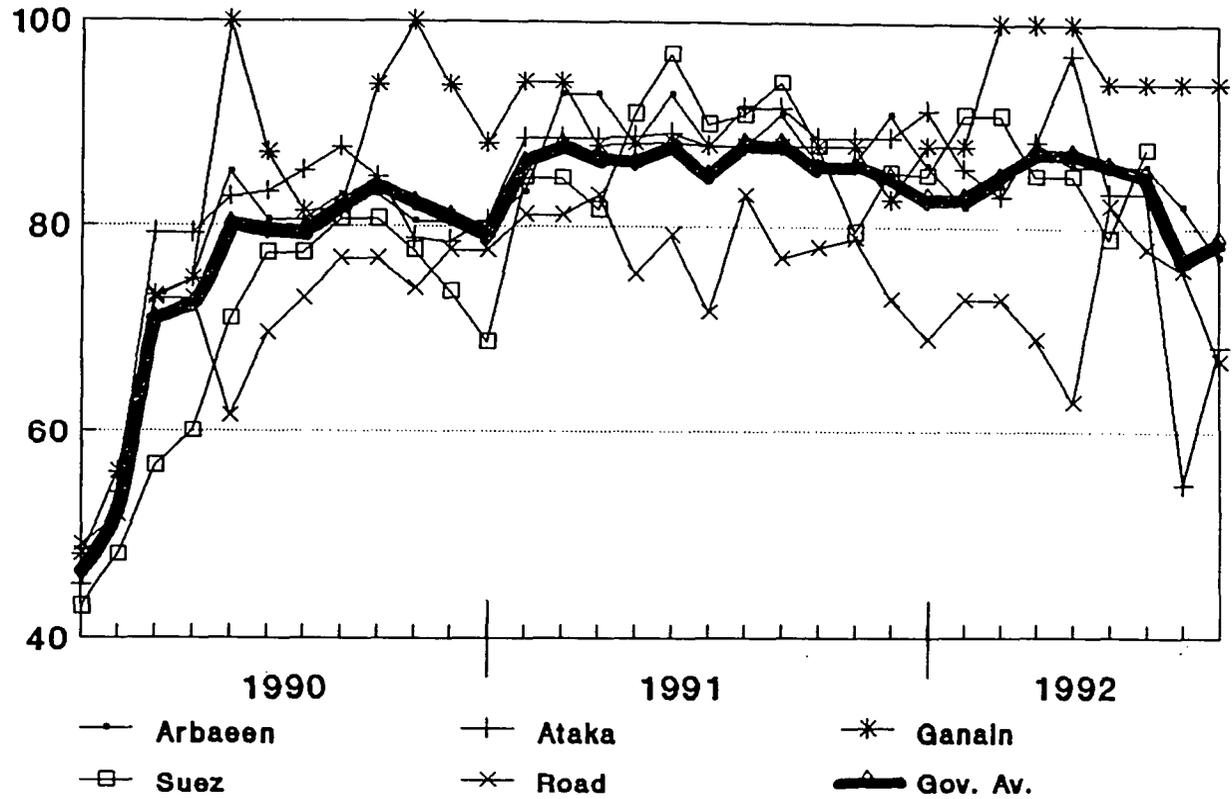
CAIRO GOVERNORATE
'ON-THE-ROAD' AVAILABILITY



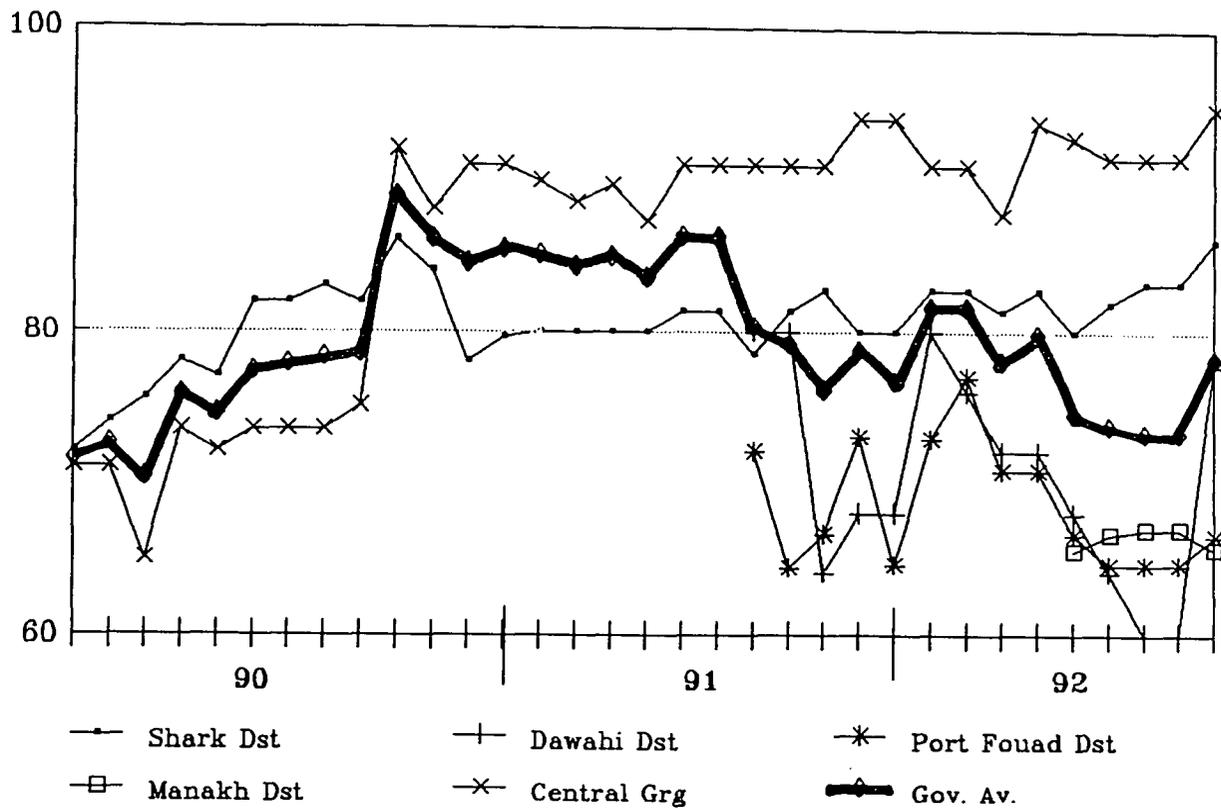
ALEXANDRIA GOVERNORATE
"ON-THE-ROAD" AVAILABILITY



SUEZ GOVERNORATE 'ON THE ROAD' AVAILABILITY



PORT SAID GOVERNORATE
"ON-THE-ROAD" AVAILABILITY



INVENTORY AND STATUS OF CAIRO GOVERNORATE
SERVICE VEHICLE/EQUIPMENT FLEET
(As of December 15, 1992)

Vehicle/Equipment Name	Total	I.O	Need Repair			Avail. %
			Level 1	Level 2	Level 3	
<u>Garbage Collection</u>						
Refuse Truck Side Loading	210	95	59	18	38	45
Refuse Truck Rear Loading	73	40	10	9	14	55
Refuse Truck Pick-up	185	110	12	14	39	69
Refuse Cart	230	99	57	12	62	43
Residue Truck	25	18	2	2	3	72
<u>Street Cleaning</u>						
Sweeper	55	20	8	12	14	36
Water Spray Truck	64	56	3	1	4	87
Trees Irrigation Truck	62	49	5	2	6	79
<u>Road Maintenance and Emergency Fleet</u>						
Dump Truck	274	192	20	14	49	70
Loader	84	67	11	2	4	80
Bulldozer	36	6	3	-	3	83
Grader	8	7	-	1	-	75
Roller	42	39	-	2	1	93
Mastic Mixers	10	10	-	-	-	100
Asphalt Cutters	2	2	-	-	-	100
<u>Utilities and Others</u>						
Sewage Truck	73	60	6	1	6	82
Vacuum Truck	14	8	2	1	3	57
Lighting Tower	36	27	5	2	2	75
Telescopic Crane	6	3	1	1	1	50
TOTAL	1,488	931	204	104	249	62.57

INVENTORY AND STATUS OF GIZA GOVERNORATE
SERVICE VEHICLE/EQUIPMENT FLEET
(As of December 15, 1992)

VEHICLE/EQUIPMENT NAME	TOTAL	I.O.	NEED REPAIR			AVAIL. %
			LEVEL 1	LEVEL 2	LEVEL 3	
Garbage Collection Truck	143	69	5	6	63	48
Refuse Cart	36	10	2	3	21	28
Loader	24	13	8	2	1	54
Dump Truck	121	65	32	12	12	54
Sweeper	28	11	3	3	11	39
Water Spray Truck	26	17	3	3	3	61
Sewage Truck	36	24	3	3	6	67
Grader	4	3	1	--	--	75
Landfill Compactor	3	2	1	--	--	67
Excavator - J.D.	1	1	--	--	--	100
Dumper	6	2	--	--	4	34
Crane	4	2	1	--	1	50
Tractor	1	1	--	--	--	100
Pickup	72	48	14	6	4	67
Passenger Car	7	6	1	--	--	86
Lorry 3 t	4	3	--	1	--	75
TOTAL	516	277	75	39	126	53.68

INVENTORY AND STATUS OF GIZA GOVERNORATE
SERVICE VEHICLE/EQUIPMENT FLEET (Cont.'d)

VEHICLE/EQUIPMENT NAME	TOTAL	I.O.	NEED REPAIR			AVAIL. %
			LEVEL 1	LEVEL 2	LEVEL 3	
Vehicles & Equipment of Giza City Council						
Passenger Car	18	10	1	2	5	56
Pickup	115	66	15	19	15	57
Lorry	15	9	2	2	2	60
Lighting Tower	13	12	1	1	1	92
Sewage Truck	1	1	--	--	--	100
Crane	4	3	1	--	--	75
Water Tank Truck	2	1	1	--	--	50
Fork Lift	1	1	--	--	--	100
TOTAL	169	103	21	24	23	60.95
Road Department						
Dump Truck	28	18	3	1	6	64
Loader	8	4	1	--	3	50
Grader	2	1	--	1	--	50
Roller	22	15	1	1	2	68
Asphalt Cutter	4	3	--	--	--	75
Finisher	1	1	--	--	--	100
TOTAL	65	42	5	7	11	64.6
GRAND TOTAL	750	422	101	70	157	56.27

INVENTORY AND STATUS OF SHOUBRA EL-KHEIMA CITY
SERVICE VEHICLE/EQUIPMENT FLEET
(As of December 15, 1992)

#	ITEM	QTY.	IN OPERAT.	NEEDED REPAIR			AVAIL. %
				LEVEL 1	LEVEL 2	LEVEL 2	
1	Refuse Truck	7	5	1	-	1	71
2	Refuse Cart	20	5	3	2	10	25
3	Dump Truck	43	28	2	3	10	65
4	Loader	6	3	1	-	2	50
5	Bulldozer	3	2	-	1	-	67
6	Grader	1	-	-	-	1	0
7	Roller	1	1	-	-	-	100
8	Portable Air Compressor	1	1	-	-	-	100
9	Portable Asphalt Mixing Unit	2	-	-	1	1	0
10	Lighting Tower	2	1	1	-	-	50
11	Fork Lift	3	2	-	-	1	67
12	Agricultural Tractor	15	9	1	1	4	60
13	Water Tank and Spray Truck	3	2	1	-	-	67
14	Sewage Truck	14	7	1	2	4	50
15	Excavator	2	1	-	1	-	50
16	Lorry	3	2	1	-	-	67
17	Passanger Car	5	4	1	-	-	80
18	Pickup	22	12	2	2	6	55
	TOTAL	153	85	15	13	40	55.5

INVENTORY AND STATUS OF ALEXANDRIA GOVERNORATE
SERVICE VEHICLE/EQUIPMENT FLEET
(As of December 15, 1992)

#	ITEM	QUANTITY	I.O.	NEEDED REPAIR			AVAIL- ABILITY %
				Level 1	Level 2	Level 3	
1	Refuse Truck Truxmore	103	65	3	17	18	66
2	Refuse Truck Leach	72	46	2	9	15	64
3	Refuse Truck Calabrise	21	11	-	5	5	52
4	Refuse Truck Daihatsu	1	1	-	-	-	100
5	Sweeper-Elgin	7	5	-	1	1	71
6	Dump Truck	207	109	10	45	42	53
7	Loader (including 12 new pieces)	65	44	7	7	7	78
8	Refuse Truck Ford 350	18	16	-	-	2	89
9	Water Tank Truck	26	12	3	4	5	46
10	Grader	2	2	-	-	-	100
11	Bulldozer	20	11	3	4	2	55
12	Roller	29	15	5	6	3	52
13	Air Compressor (I.R)	6	5	-	-	1	83
14	Fork lift	8	7	-	-	1	88
15	Various Types of Pick-up & Cars	440	222	67	73	78	50
16	Land Fill Compactor	3	3	-	-	-	100
	TOTAL	1,028	592	100	155	188	58

INVENTORY AND STATUS OF SUEZ GOVERNORATE
SERVICE VEHICLE/EQUIPMENT FLEET
(As of December 15, 1992)

#	VEHICLE/EQUIPMENT NAME	TOTAL	IN- OPERATION	NEED REPAIR			AVAIL. %
				LEVEL 1	LEVEL 2	LEVEL 3	
1	Refuse Truck	16	11	1	1	3	69
2	Agriculture Truck	57	45	2	3	7	80
3	Sweeper Truck	3	2	1	-	-	67
4	Dump Truck	26	19	2	1	4	73
5	Water Tank and Spray	8	6	1	1	-	75
6	Bulldozer	7	3	1	1	2	43
7	Grader	5	3	1	1	-	60
8	Loader	13	7	1	3	2	54
9	Roller	5	3	1	1	-	60
10	Finisher	1	1	-	-	-	100
11	Asphalt Mixing Plant	1	--	-	-	1	0
12	Bitumen Boiler	2	1	-	1	-	50
13	Asphalt Cutter	1	1	-	-	-	100
14	Concrete Mixer	1	1	-	-	-	100
15	Dumper	2	1	-	1	-	50
16	Sewage Truck	10	6	1	2	1	60
17	Lorry	8	5	-	2	1	63
18	Pick-Up	41	36	-	1	4	88
19	Passenger Car	9	8	-	1	-	89
20	Crane	3	1	-	2	-	33
21	Fork Lift	1	1	-	-	-	100
22	Excavator	3	2	-	1	-	67
	TOTAL	223	163	12	23	35	73

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Appendix 9

PROPOSED ACTIVITIES AND ANNUAL BUDGET

O&M ALLOCATIONS FOR FY 1989 TO 1992

O&M PROPOSED ACTIVITIES
AND ANNUAL BUDGET ALLOCATIONS
FOR FY 1989 TO 1992

Cairo Governorate

Item	Amount of Estimated Budget By FY in LE Thousands				Actual Allocations			
	89	90	91	92	89	90	91	92
1. Implementing Garages and Workshop construction and renovation program.	2,130	1,600	800	1,160	2,500	55	-	-
2. Purchase of shop equipment and tools for new garages and workshops.	-	400	250	-	-	129	-	-
3. Purchase of office equipment and furniture for new garages and workshops.	-	-	150	200	-	100	-	-
4. Purchase of shelves, bins, kardex boxes, and cards for spare parts warehouses.	-	130	159	-	-	100	-	-
5. Purchase of imported spare parts for levels 2 and 3 repairs (medium and major repairs)	-	812	812	812	-	-	-	-
6. Purchase of locally produced spare parts for PM and level 1 repairs.	-	850	850	850	500	393	2,427	-
7. Vehicles and equipment repair by contracting private sector specialized firms.	850	850	850	850	232	50	150	-
8. Procurement of road maintenance vehicles and equipment, and replacement of written off vehicles and equipment.	4,740	3,890	3,890	3,890	2,911	2,373	462	-
Total Priority 1	7,720	7,720	7,761	7,762	6,143	3,200	3,039	-

O&M PROPOSED ACTIVITIES
AND ANNUAL BUDGET ALLOCATIONS
FOR FY 1989 TO 1992

Port Said Governorate

Item	Amount of Estimated Budget By FY in LE Thousands				Actual Allocations			
	89	90	91	92	89	90	91	92
1. Establish a spare parts inventory control system including renovation and equipping of spare parts warehouse in the central workshop	-	75	-	-	1,773	833	575	-
2. Renovation of the Central Workshop	220	-	-	-				
3. Construction of El Arab District Garage and purchase of shop equipment and tools	200	200	200	60				
4. Construction of El Manakh District Garage and purchase of shop equipment and tools	200	200	200	60				
5. Complete construction of El Dawahi District Garage after expanding the site	250	-	-	-				
6. Upgrading East District Garage including paving, fire fighting water network, and purchase of shop equipment and tools	130	50	-	-				
7. Upgrading of Port Fouad District Garage including renovation of the workshop, completion of the service station and the spare parts store	90	60	-	-				
8. Construction of a new Road Department Garage and Workshop. On the completion of this facility, equipment for an asphalt lab will be procured.	290	200	200	50				
9. Purchase of locally produced spare parts for Governorate and Districts	40	50	50	50	82	-	38	-
10. Purchase of imported spare parts for Governorate and Districts	-	-	60	60	-	-	-	-
11. Repair of Governorate and districts vehicles and equipment by contracting with private firms.	30	65	40	40	-	-	75	-
12. Purchase of vehicles and equipment for the clean-up fleet and the Road Maintenance Department	242	326	443	873	95	220	346	-
Grand Total - Priority 1	1692	1226	1193	1193	1,950	1,053	1,034	-

N.B. The shown allocations are for construction of all garages and workshops and for the purchase of shop equipment and tools.

O&M PROPOSED ACTIVITIES
AND ANNUAL BUDGET ALLOCATIONS
FOR FY 1989 TO 1992

Suez Governorate

Item	Amount of Estimated Budget By FY in LE Thousands				Actual Allocations			
	89	90	91	92	89	90	91	92
1. Upgrading of the Governorate's Central Garage and Workshop including: <ul style="list-style-type: none"> o Construction of a fuel and service stn. o Renovation of the existing facility o Expansion of the parking area o Construction of a spare parts warehouse 	230	50	-	-	530	333	487	-
					N.B. The above allocation are for construction and renovation of all garages and workshops in governorate			
2. Develop. of Suez District garage including: <ul style="list-style-type: none"> o Construction of a new service station o A fire fighting water network o Paving the parking area 	-	75	75	-				
3. Upgrading of El-Arbaeen District garage by: <ul style="list-style-type: none"> o Expansion and paving of the parking area o Construction of a service stn. o Construction of a fire fighting water network o Upgrading of the administrative building and illumination 	-	85	75	75				
4. Upgrading of Attaka District Garage and the purchase of shop equipment and tools.	147	50	-	-				
5. Construction of El-Ganayen District Garage in the assigned new site.	150	150	150	150				
6. Procurement of vehicles and equipment for garbage collection.	105	94	157	355	206	278	-	-
7. Purchase of spare parts.	23	142	142	125	18	-	236	-
8. Purchase of shop equipment.	151	82	50	-	247	28	17	-
9. Vehicles and equipment repair in private sector firms.	36	147	124	155	58	28	26	-
Total	842	875	773	860	1,059	667	766	-

O&M PROPOSED ACTIVITIES
AND ANNUAL BUDGET ALLOCATIONS
FOR FY 1989 TO 1992

Giza Governorate

Item	Amount of Estimated Budget By FY in LE Thousands				Actual Allocations			
	1989	1990	1991	1992	1989	1990	1991	1992
1. Implement the proposed garage program for GCBA	1,500	1,500	1,500	1000	1500	1500	753	---
2. Equip the service station in Imbaba City Garage & maintenance of the administrative buildings and workshops.	150	---	---	---	39	---	---	---
3. Procurement of locally produced spare parts for the repair of the fleet	220	220	440	220	---	---	---	---
4. Procurement of locally produced spare parts:								
o for GCBA	172	150	150	150)	45.5	---	---	---
o for districts	100	100	100	100)				
5. Repair of faulty CIP vehicles and equipment by contracting private sector specialized firms.								
o for GCBA	150	100	100	150	---	---	---	---
o for districts	75	75	75	100	---	---	---	---
6. Procurement of vehicles and equipment for GCBA, Districts and Road Department	1,440	662	442	1,087	151	---	---	---
Total	3,807	2,807	2,807	2,807	1,595.5	1,642	753	---

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O&M PROPOSED ACTIVITIES
AND ANNUAL BUDGET ALLOCATIONS
FOR FY 1989 TO 1992

Alexandria Governorate

ITEMS	Amount of Estimated Budget By FY in LE Thousands				Actual Allocations			
	1989	1990	1991	1992	1989	1990	1991	1992
1. Upgrading and renovation of the Central Workshop, including purchase of shop equipment and tools	---	850	---	500	---	775	360	---
2. Renovation of vacated district garage to be used by the Road Directorate and the purchase of shop equipment and tools.	---	---	450	---	---	---	---	---
3. Purchase of an asphalt testing lab equipment and tools.	---	---	40	---	---	---	---	---
4. Purchase of imported spare parts for levels 2 and 3 repairs (medium and major repairs) for the fleet).	---	348	348	348	---	---	---	---
5. Purchase of locally produced spare parts for PM and level 1 repairs.	300	300	300	300	235	170	510	---
6. Purchased of locally produced spare parts for PM and level 1 repairs of the emergency clean-up fleet	---	70	70	70	---	---	---	---
7. Major repairs for the fleet in specialized private sector workshops to upgrade the fleet condition.	300	300	300	300	---	295	90	---
8. Procurement of road maintenance and garbage collection vehicles and equipment	2,984	1,734	2,094	2,084	2,360	1,325	650	---
Total	3,584	3,602	3,602	3,602	2,595	2,565	1,610	---

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O&M PROPOSED ACTIVITIES
AND ANNUAL BUDGET ALLOCATIONS
FOR FY 1989 TO 1992

Shoubra El-Kheima City

Item	Amount of Estimated Budget By FY in LE Thousands				Actual Allocations			
	89	90	91	92	89	90	91	92
1. Construction of two story garage to include East District garage and workshop and a maintenance center.	1,016	1,016	700	800	1,038	1,210	370	-
2. Shop equipment and tools purchase to upgrade West District Workshop.	30	-	-	-	400	250	330	-
3. Purchase of locally produced spare parts.	75	50	45	75	-	-	-	-
4. Medium and major repairs needed by contracting specialized private sector firms.	95	40	45	45	-	-	-	-
5. Purchase of clean-up and road maintenance vehicles and equipment.	687	812	693	563	230	643	265	-
Grand Totals	1,903	1,918	1,503	1,503	1,668	2,103	965	-

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Appendix 10

MIS EQUIPMENT DELIVERY RECORDS

DELIVERED HARDWARE

QTY	TYPE	DESCRIPTION	SERIAL NO.	DEPARTMENT	QTY
MLA					
	STABLIZER	FRIEND	N/A		
	STABLIZER	ELCO	N/A		
	STABLIZER	ELCO	N/A		
	STABLIZER	ELCO	N/A		
	CPU	XT COMPATIBLE	CT608429		
	CPU	XT COMPATIBLE	CT619682		
	CPU	XT COMPATIBLE	CT608612		
	CPU	XT COMPATIBLE	CT619639		
	MONITOR	AOC MONOCHROME	HA0026853		
	MONITOR	AOC MONOCHROME	HA0113005		
	MONITOR	AOC MONOCHROME	HA0179936		
	MONITOR	SAMTRON	8903028965		
	KEYBOARD	XT	200896		
	KEYBOARD	XT	30481		
	KEYBOARD	XT	N/A		
	KEYBOARD	XT	870716998		
	PRINTER	EPSON FX-100	516670		
	PRINTER	EPSON FX 1050	OOD1120341		
	PRINTER	SUPER 5 EP-2405	7JBH0001996		
	PRINTER	SUPER 5 EP-2405	7JCNG002112		

GOV	TYPE	DESCRIPTION	SERIAL NO.	DEPARTMENT	QTY
-----	------	-------------	------------	------------	-----

CAIRO

STABLIZER	ELCO			TRAINING	
CPU	EVEREX 286		1GE01-003-30437	TRAINING	
MONITOR	EVERVISION		3WN48900	TRAINING	
KEYBOARD	EVEREX AT		00613156	TRAINING	
PRINTER	EPSON LQ-1050		OTG1021097	TRAINING	
SCREEN FILTERS	SCREEN FILTERS			TRAINING	

STABLIZER	ISKRA			OMED	2
CPU	SYSGEN MICROCOMPUTERS	10169		OMED	
CPU	SYSGEN MICROCOMPUTERS	106-10164		OMED	
MONITOR	IPC COLOR MONITOR			OMED	
MONITOR	IPC COLOR MONITOR			OMED	
PRINTER	EPSON FX 1050	ODD1116881		OMED	
PRINTER	EPSON FX 1050	ODD1116882		OMED	
SCREEN FILTERS	SCREEN FILTERS	N/A		OMED	2
DISKETTES	TDK			OMED	6
COVERS	COMPUTER & PRINTER COVERS	N/A		OMED	2
PRINTER RIBBON	PRINTER RIBBON			OMED	2
PRINTER PAPER	PACK OF PRINTER PAPER 132			OMED	2
PRINTER PAPER	PACK OF PRINTER PAPER 132			OMED	2
PRINTER PAPER	PACK OF PRINTER PAPER 80			OMED	2
PRINTER PAPER	PACK OF PRINTER PAPER 80			OMED	2

COMPUTER CARDS	EGA CARD	N/A		MIS	6
COMPUTER CARDS	EGA - ULTIMA EGA	321727		MIS	
COMPUTER CARDS	EGA - ULTIMA EGA	321543		MIS	
COMPUTER CARDS	EGA - ULTIMA EGA	321526		MIS	
COMPUTER CARDS	EGA - ULTIMA EGA	321469		MIS	
UPS	AMERICAN POWER CONVERSIO	P891219095		MIS	
UPS	AMERICAN POWER CONVERSIO	P891219091		MIS	

STABLIZER	ELCO	N/A		LMU	
CPU	EVEREX 386/20	25003-952-28138		LMU	
MONITOR	EVERVISION	CD36-100517		LMU	
KEYBOARD	EVEREX AT	06548510		LMU	
PRINTER	EPSON FX 1050	OE10015773		LMU	
MOUSE	GENIUS	93774479		LMU	

CPU	DELL COMPUTER SYSTEM 386/	081AU		INVENTORY	
MONITOR	VGA COLOR MONITOR	MC-00301283		INVENTORY	
KEYBOARD	DELL	00047195		INVENTORY	
PRINTER	EPSON LQ-1050	OTG1021508		INVENTORY	
CABLES	PRINTER CABLE			INVENTORY	
UPS	AMERICAN POWER CONVERSIO	PN01001404		INVENTORY	

HEAD CLEAN DISKETT	5.25 INCH	N/A			
PRINTER RIBBON	PRINTER RIBBON				2
PRINTER PAPER	PACK OF PRINTER PAPER 132				
PRINTER PAPER	PACK OF PRINTER PAPER 80				

GGV	TYPE	DESCRIPTION	SERIAL NO.	DEPARTMENT	QTY
ALEX					
	STABLIZER	ELCO		TRAINING	
	CPU	EVEREX 286	16E01-952-28719	TRAINING	
	MONITOR	EVERVISION	3WN48849	TRAINING	
	KEYBOARD	EVEREX AT	00546596	TRAINING	
	PRINTER	EPSON LQ-1050	0FG0037492	TRAINING	
	SCREEN FILTERS	SCREEN FILTERS		TRAINING	
	MOUSE	GENIUS	93774463	TRAINING	
	STABLIZER	ISKRA		OMED	2
	CPU	SYSGEN MICROCOMPUTERS	106-10161	OMED	
	CPU	SYSGEN MICROCOMPUTERS		OMED	
	MONITOR	TVM ENHANCED COLOR	21460710	OMED	
	MONITOR	TVM ENHANCED COLOR		OMED	
	KEYBOARD	SYSGEN AT		OMED	
	PRINTER	EPSON FX 1050	OOD1074864	OMED	
	PRINTER	EPSON FX 1050		OMED	
	SCREEN FILTERS	SCREEN FILTERS		OMED	2
	DISKETTES	TDK		OMED	4
	COVERS	COMPUTER & PRINTER COVERS		OMED	2
	PRINTER RIBBON	PRINTER RIBBON		OMED	2
	PRINTER PAPER	PACK OF PRINTER PAPER 132		OMED	4
	PRINTER PAPER	PACK OF PRINTER PAPER 132		OMED	2
	PRINTER PAPER	PACK OF PRINTER PAPER 80		OMED	4
	PRINTER PAPER	PACK OF PRINTER PAPER 80		OMED	2
	STABLIZER	ELCO	N/A	O&M GARAGE	
	CPU	ITI XT	87002846	O&M GARAGE	
	MONITOR	ITI MONOCHROME	008840	O&M GARAGE	
	KEYBOARD	IBM XT ENHANCED	21057	O&M GARAGE	
	PRINTER	EPSON FX 1050	OOD1120329	O&M GARAGE	
	STABLIZER	ISKRA		MIS	4
	CPU	IBM XT	550031403	MIS	
	CPU	IBM XT	55003145	MIS	
	CPU	IBM PC XT SFD	550030954	MIS	
	CPU	IBM PC XT SFD	550022299	MIS	
	MONITOR	IBM MONOCHROME	1485046	MIS	
	MONITOR	IBM MONOCHROME	1482518	MIS	
	MONITOR	MONOCHROME DISPLAY	1471465	MIS	
	MONITOR	MONOCHROME DISPLAY	1473161	MIS	
	KEYBOARD	IBM ENHANCED XT MOD. SL	55-0118347	MIS	
	KEYBOARD	IBM ENHANCED XT MOD. SL	55-0118183	MIS	
	KEYBOARD	IBM ENHANCED	55-0118300	MIS	
	KEYBOARD	IBM ENHANCED	55-0051004	MIS	
	PRINTER	IBM PROPRINTER	580070905	MIS	
	PRINTER	IBM PROPRINTER	580070840	MIS	
	PRINTER	IBM PROPRINTER	580070680	MIS	
	PRINTER	IBM PROPRINTER	580069043	MIS	
	COMPUTER CARDS	EGA - ULTIMA EGA	321735	MIS	
	COMPUTER CARDS	EGA - ULTIMA EGA	321722	MIS	
	COMPUTER CARDS	EGA - ULTIMA EGA	321759	MIS	
	COMPUTER CARCS	EGA - ULTIMA EGA	321721	MIS	
	NO-SLOT CLOCK SMT	NO-SLOT CLOCK SMT		MIS	4
	STABLIZER	ELCO		LMU	
	CPU	EVEREX 386/25		LMU	
	MONITOR	EVERVISION		LMU	
	KEYBOARD	EVEREX		LMU	
	PRINTER	EPSON FX 1050		LMU	
	MOUSE	GENIUS		LMU	
	SCREEN FILTERS	SCREEN FILTERS			4
	COVER SET	COVER SET			

GOV	TYPE	DESCRIPTION	SERIAL NO.	DEPARTMENT	QTY
GIZA					
	STABLIZER	ELCO		TRAINING	
	CPU	EVEREX 286	16E01-952-27549	TRAINING	
	MONITOR	EVERVISION	3WN48847	TRAINING	
	KEYBOARD	EVEREX AT		TRAINING	
	PRINTER	EPSON FX 1050	0E10033862	TRAINING	
	MOUSE	GENTUS	93774469	TRAINING	
	STABLIZER	ISKRA		OMED	2
	CPU	SYSGEN MICROCOMPUTERS		OMED	
	CPU	SYSGEN MICROCOMPUTERS		OMED	
	MONITOR	IPC COLOR MONITOR		OMED	
	MONITOR	IPC COLOR MONITOR		OMED	
	KEYBOARD	SYSGEN AT		OMED	
	KEYBOARD	SYSGEN AT		OMED	
	PRINTER	EPSON FX 1050		OMED	
	PRINTER	EPSON FX 1050		OMED	
	SCREEN FILTERS	SCREEN FILTERS	N/A	OMED	2
	DISKETTES	TDK		OMED	6
	COVERS	COMPUTER & PRINTER COVERS	N/A	OMED	2
	PRINTER RIBBON	PRINTER RIBBON		OMED	2
	PRINTER PAPER	PACK OF PRINTER PAPER 132		OMED	4
	PRINTER PAPER	PACK OF PRINTER PAPER 80		OMED	4
	UPS	AMERICAN POWER CONVERSI	P891219080	OMED	
	STABLIZER	ISKRA		MIS	2
	CPU	IBM PC XT SFD		MIS	
	CPU	IBM PC XT SFD		MIS	
	MONITOR	MONOCHROME DISPLAY		MIS	
	MONITOR	MONOCHROME DISPLAY		MIS	
	KEYBOARD	IBM ENHANCED XT MOD. SL		MIS	
	KEYBOARD	IBM ENHANCED XT MOD. SL		MIS	
	PRINTER	IBM PROPRINTER		MIS	
	PRINTER	IBM PROPRINTER		MIS	
	COMPUTER CARDS	EGA - ULTIMA EGA	321757	MIS	
	COMPUTER CARDS	EGA - ULTIMA EGA	321512	MIS	
	COMPUTER CARDS	EGA - ULTIMA EGA	321523	MIS	
	COMPUTER CARDS	EGA - ULTIMA EGA	321766	MIS	
	NO-SLOT CLOCK SMT	NO-SLOT CLOCK SMT		MIS	4
	STABLIZER	ELCO	N/A	LMU	
	CPU	EVEREX 386/25	25G03-952-28137	LMU	
	MONITOR	EVERVISION	CD63-100523	LMU	
	KEYBOARD	EVEREX		LMU	
	PRINTER	EPSON FX 1050	0E11040587	LMU	
	MOUSE	GENTUS		LMU	
	STABLIZER	ELCO		DESERT ROAD GARAGE	
	CPU	AT COMPATIBLE	CT614960	DESERT ROAD GARAGE	
	MONITOR	AOC MONOCHROME	MB0031010	DESERT ROAD GARAGE	
	KEYBOARD	IBM XT ENHANCED	947892	DESERT ROAD GARAGE	
	PRINTER	EPSON FX 1050	OOD1007001	DESERT ROAD GARAGE	
	CLEANING KIT	CLEANING KIT	N/A		
	SCREEN FILTERS	SCREEN FILTERS	N/A		4

QTY	TYPE	DESCRIPTION	SERIAL NO.	DEPARTMENT	QTY.
-----	------	-------------	------------	------------	------

QALUBIA

	CPU	ITI XT	87002853	WATER BILLING	
	MONITOR	IBN MONOCHROME	70603569	WATER BILLING	
	KEYBOARD	IBM XT ENHANCED	0029209	WATER BILLING	
	STABILIZER	ELCO		TRAINING	
	CPU	EVEREX 286		TRAINING	
	MONITOR	EVERVISION		TRAINING	
	KEYBOARD	EVEREX AT		TRAINING	
	PRINTER	EPSON LQ-1050		TRAINING	
	SCREEN FILTERS	SCREEN FILTERS		TRAINING	
	STABILIZER	ISK/A		OMED	2
	CPU	SYSGEN MICROCOMPUTERS	106-10168	OMED	
	CPU	SYSGEN MICROCOMPUTERS	106-10166	OMED	
	MONITOR	IPC COLOR MONITOR	008759	OMED	
	MONITOR	IPC COLOR MONITOR	31461353	OMED	
	KEYBOARD	DELL	D9015435	OMED	
	KEYBOARD	DELL	D8006487	OMED	
	PRINTER	EPSON FX 1050	OOD1074856	OMED	
	PRINTER	EPSON FX 1050	OOD1116880	OMED	
	SCREEN FILTERS	SCREEN FILTERS	N/A	OMED	2
	DISKETTES	TDK		OMED	4
	COVERS	COMPUTER & PRINTER COVE	N/A	OMED	2
	PRINTER RIBBON	PRINTER RIBBON		OMED	2
	PRINTER PAPER	PACK OF PRINTER PAPER 132		OMED	4
	PRINTER PAPER	PACK OF PRINTER PAPER 80		OMED	4
	STABILIZER	ISKRA		MIS	4
	CPU	IBM PC XT SFD	5160-BG550123905	MIS	
	CPU	IBM PC XT SFD	5160-BG550031391	MIS	
	CPU	IBM PC XT SFD	5160-BG550123151	MIS	
	CPU	IBM PC XT SFD	5160-BG550031415	MIS	
	MONITOR	MONOCHROME DISPLAY	1467993	MIS	
	MONITOR	MONOCHROME DISPLAY	1485045	MIS	
	MONITOR	MONOCHROME DISPLAY	1704922	MIS	
	MONITOR	MONOCHROME DISPLAY	1483584	MIS	
	KEYBOARD	IBM ENHANCED XT MOD. SL	55-0028585	MIS	
	KEYBOARD	IBM ENHANCED XT MOD. SL	55-0118227	MIS	
	KEYBOARD	IBM ENHANCED XT MOD. SL	55-0118251	MIS	
	KEYBOARD	IBM ENHANCED XT MOD. SL	55-0118327	MIS	
	PRINTER	IBM PROPRINTER	58-0184075	MIS	
	PRINTER	IBM PROPRINTER	58-0069477	MIS	
	PRINTER	IBM PROPRINTER	58-0069370	MIS	
	PRINTER	IBM PROPRINTER	58-0184001	MIS	
	COMPUTER CARDS	EGA - ULTIMA EGA	321773	MIS	
	COMPUTER CARDS	EGA - ULTIMA EGA	321482	MIS	
	COMPUTER CARDS	EGA - ULTIMA EGA	321805	MIS	
	COMPUTER CARDS	EGA - ULTIMA EGA	321805	MIS	
	NO-SLOT CLOCK S	NO-SLOT CLOCK SMT		MIS	4
	VOL. REGULATION	MODEL AR 500 RS	N/A		
	COMPUTER CARDS	EGA CARD	N/A		2
	CABLES	PRINTER CABLE	N/A		2
	SCREEN FILTERS	SCREEN FILTERS	N/A		4
	ADABTOR	PRINTER ADABTOR	N/A		2
	COVER SET	COVER SET	N/A		2
	PRINTER SET	PRINTER SET	N/A		2

QTY	TYPE	DEPT	DESCRIPTION	SERIAL NO.	DEPARTMENT	QTY
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SUEZ

STABILIZER	ELCO				TRAINING	
CPU	EVEREX 286		16E01-952-25271		TRAINING	
MONITOR	EVERVISION		3WN48859		TRAINING	
KEYBOARD	EVEREX AT		00546514		TRAINING	
PRINTER	EPSON LQ-1050		OOD1053795		TRAINING	
SCREEN FILTERS	SCREEN FILTERS				TRAINING	

STABILIZER	ISKRA				OMED	2
CPU	SYSGEN MICROCOMPUTERS	106-10165			OMED	
CPU	SYSGEN MICROCOMPUTERS	106-10163			OMED	
MONITOR	IPC COLOR MONITOR	21462477			OMED	
MONITOR	IPC COLOR MONITOR	008861			OMED	
KEYBOARD	SYSGEN AT	D9011D5412			OMED	
KEYBOARD	SYSGEN AT	D8006293			OMED	
PRINTER	EPSON FX 1050	OOD1116901			OMED	
PRINTER	EPSON FX 1050	OOD1074853			OMED	
SCREEN FILTERS	SCREEN FILTERS				OMED	2
DISKETTES	TDK				OMED	4
COVERS	COMPUTER & PRINTER COVERS				OMED	2
PRINTER RIBBON	PRINTER RIBBON				OMED	2
PRINTER PAPER	PACK OF PRINTER PAPER 132				OMED	4
PRINTER PAPER	PACK OF PRINTER PAPER 80				OMED	4
UPS	AMERICAN POWER CONVERSI	P891219082			OMED	

STABILIZER	ISKRA				MIS	4
CFU	IBM PC XT SFD	550010578			MIS	
CPU	IBM PC XT SFD	550122877			MIS	
CPU	IBM PC XT	550136165			MIS	
CPU	IBM PC XT	550029340			MIS	
MONITOR	IBM MONOCHROME	1588347			MIS	
MONITOR	IBM MONOCHROME	1508163			MIS	
MONITOR	MONOCHROME DISPLAY	1708213			MIS	
MONITOR	MONOCHROME DISPLAY	1708205			MIS	
KEYBOARD	IBM ENHANCED XT MOD. SL	0989705/1			MIS	
KEYBOARD	IBM ENHANCED XT MOD. SL	098905/2			MIS	
KEYBOARD	IBM ENHANCED	09870512			MIS	
KEYBOARD	IBM ENHANCED	13869969			MIS	
PRINTER	IBM PROPRINTER	580183282			MIS	
PRINTER	IBM PROPRINTER	580183444			MIS	
PRINTER	IBM PROPRINTER	580058290			MIS	
PRINTER	IBM PROPRINTER	580082277			MIS	
COMPUTER CARDS	EGA - ULTIMA EGA	321541			MIS	
COMPUTER CARDS	EGA - ULTIMA EGA	321444			MIS	
COMPUTER CARDS	EGA - ULTIMA EGA	321521			MIS	
COMPUTER CARDS	EGA - ULTIMA EGA	321452			MIS	
SCREEN FILTERS	SCREEN FILTERS				MIS	4
COVER SET	COVER SET				MIS	4
NO-SLOT CLOCK S	NO-SLOT CLOCK SMT				MIS	4
UPS	AMERICAN POWER CONVERSI	P891219090			MIS	

CPU	EVEREX 286	16E01-952-28617			LMU	
MONITOR	EVERVISION	3WN48845			LMU	
KEYBOARD	EVEREX AT	00560005			LMU	
PRINTER	EPSON LQ-1050	OOD0013115			LMU	
MOUSE	GENIUS	1176672			LMU	

CLEANING KIT	CLEANING KIT					
DISK BOX	DS-DS FLOPPY DISK BOX					

P. SAID

STABLIZER	ELCO			TRAINING	
CPU	EVEREX 286			TRAINING	
MONITOR	EVERVISION			TRAINING	
KEYBOARD	EVEREX AT			TRAINING	
PRINTER	EPSON LQ-1050			TRAINING	
SCREEN FILTERS	SCREEN FILTERS			TRAINING	

STABLIZER	ISKRA			OMED	2
CPU	SYSGEN MICROCOMPUTERS	106-10160		OMED	
CPU	SYSGEN MICROCOMPUTERS	106-10158		OMED	
MONITOR	IPC COLOR MONITOR	008916		OMED	
MONITOR	IPC COLOR MONITOR	008863		OMED	
KEYBOARD	DELL	D9015412		OMED	
KEYBOARD	DELL	D8006293		OMED	
PRINTER	EPSON FX 1050	OOD1074848		OMED	
PRINTER	EPSON FX 1050	OOD1116899		OMED	
PRINTER	IBM PROPRINTER	580082277		OMED	
PRINTER	IBM PROPRINTER	580058290		OMED	
SCREEN FILTERS	SCREEN FILTERS	N/A		OMED	2
DISKETTES	TDK			OMED	4
COVERS	COMPUTER & PRINTER COVERS			OMED	2
PRINTER RIBBON	PRINTER RIBBON			OMED	2
PRINTER PAPER	PACK OF PRINTER PAPER 132			OMED	4
PRINTER PAPER	PACK OF PRINTER PAPER 80			OMED	4
POWER SUPPLY	UNINTERRUPTIRE POWER SUP P891219078			OMED	

STABLIZER	ISKRA			MIS	4
CPU	IBM PC XT SFD	5160-BG3550125545		MIS	
CPU	IBM PC XT SFD	5160-BG356022650		MIS	
CPU	IBM PC XT SFD	5160-BG355047402		MIS	
CPU	IBM PC XT SFD	5160-BG3550136046		MIS	
MONITOR	MONOCHROME DISPLAY	1515613		MIS	
MONITOR	MONOCHROME DISPLAY	1708210		MIS	
MONITOR	MONOCHROME DISPLAY	1708206		MIS	
MONITOR	MONOCHROME DISPLAY	1578304		MIS	
KEYBOARD	IBM ENHANCED XT MOD. SL	55-0046360		MIS	
KEYBOARD	IBM ENHANCED XT MOD. SL	55-0183930		MIS	
KEYBOARD	IBM ENHANCED XT MOD. SL	55-0183774		MIS	
KEYBOARD	IBM ENHANCED XT MOD. SL	55-1008854		MIS	
PRINTER	IBM PROPRINTER	58-0183079		MIS	
PRINTER	IBM PROPRINTER	58-0082196		MIS	
PRINTER	IBM PROPRINTER	58-0088248		MIS	
PRINTER	IBM PROPRINTER	58-0183089		MIS	
COMPUTER CARDS	EGA - ULTIMA EGA	321520		MIS	
COMPUTER CARDS	EGA - ULTIMA EGA	321456		MIS	
COMPUTER CARDS	EGA - ULTIMA EGA	321528		MIS	
COMPUTER CARDS	EGA - ULTIMA EGA	321798		MIS	
CABLES	PRINTER CABLE			MIS	4
SCREEN FILTERS	SCREEN FILTERS	N/A		MIS	4
ADABTOR	PRINTER ADABTOR			MIS	4
COMPUTER COVER	COMPUTER COVER			MIS	4
PRINTER COVER	PRINTER COVER	N/A		MIS	4
NO-SLOT CLOCK S	NO-SLOT CLOCK SMT			MIS	4
POWER SUPPLY	UNINTERRUPTIRE POWER SUP P891219081			MIS	

CPU	EVEREX 386/25	25G03 95233765		LMU	
MONITOR	EVERVISION	CD36 100530		LMU	
KEYBOARD	EVEREX			LMU	
PRINTER	EPSON FX 1050	OE11040250		LMU	
MOUSE	GENTUS	93774462		LMU	
DIGITIZER	SUMMASKETCH II PROF.	0103430041031330578		LMU	
PLOTTER	GRAPHTEC XY PLOTTER	7040465		LMU	

CPU
MONITOR
KEYBOARD
PRINTER

EVEREX 286
EVERVISION
SYSGEN AT
EPSON FX 1050

16E01-952-25271
3WN48859
D9011D5412
OOD1053795

HOUSING DIRECTORATE
HOUSING DIRECTORATE
HOUSING DIRECTORATE
HOUSING DIRECTORATE

CPU
MONITOR
KEYBOARD
PRINTER

MICRONET XT
ITI MONOCHROME
ITI XT
EPSON FX 1050

LDICPU04
008839
021983
OE1003879

EL SHARK DIST.
EL SHARK DIST.
EL SHARK DIST.
EL SHARK DIST.

CLEANING KIT
COVER SET
DISK CARE
SMT

CLEANING KIT
COVER SET
DISK CARE
SMT

N/A
N/A

Appendix 11

**PROJECT VEHICLE, EQUIPMENT AND FURNITURE
DELIVERY RECORDS**

WILBUR SMITH ASSOCIATES
LD II URBAN PROJECT

INVENTORY DELIVERED
TO
CAIRO - GIZA AND QALIUBIA

NO.	ITEMS	TOTAL	CAIRO	GIZA	QAL.	REMARKS
1	Wooden Desks (2 Drawers)	16	8	4	4	
2	Set of Wood Drawers (3 Drawers)	15	7	4	4	
3	Set of Metal Drawers (4 Drawers)	2	1	1		
4	Metal Cabinets 180 cm.	3	1	1	1	
5	Bookcase, 3 Shelves (Mobica)	1	-	1	-	
6	Bookcase with slide glass doors	1	1			
7	Desk Chairs	16	8	4	4	
8	Visitor Chairs	13	7	3	3	
9	Conference Chairs	8	8			
10	Bases for the Bookcase	1		1		
11	Conference Table	1	1			
12	Computer Tables	5	3	1	1	
13	Typewriter Tables	2	2			
14	Blackboard	1	1			
15	TV Phillipps 26"	1	1			
16	VCR Toshiba 3 Systems	1	1			

append\galal

WILBUR SMITH ASSOCIATES
LD II URBAN PROJECT

PROPOSED DISTRIBUTION OF THE INVENTORY
- BY GOVERNORATE

No	Item	Total	MLA	37% Cairo	22% Alex	16% Giza	9.5% Qal	7.5% P.S.	7.5% Suez
1	Wooden Desks (2 Drawers)	32	-	9	10	4	1	4	4
2	Wooden Desks (7 Drawers)	2	-	1	1	-	-	-	-
3	Computer Desks (White) Mobica	3	-	1	1	1	-	-	-
4	Computer Desks (Brown) Mobica	1	-	-	-	-	1	-	-
5	Printer Desk (White) Mobica	1	-	1	-	-	-	-	-
6	Conference Tables (Atico)	2	2	-	-	-	-	-	-
7	Computer Tables	4	-	-	2	-	-	1	1
8	Typewriter Tables	6	-	-	2	1	1	1	1
9	Coffee Tables	2	-	1	1	-	-	-	-
10	Desk Chairs	33	-	10	10	4	1	4	4
11	Secretary Chair (Without arms)	17	-	6	4	3	2	1	1
12	Secretary Chair (With arms) Mobica	1	-	1	-	-	-	-	-
13	Visitor Chairs (Without arms)	39	-	12	12	5	2	4	4
14	Visitor Chairs (With arms)	6	-	2	2	2	-	-	-
15	Conference Chairs (Without arms)	12	12	-	-	-	-	-	-
16	Set of Wooden Drawers (3 Drawers)	32	-	10	10	3	1	4	4
17	Set of Drawers (Metal) 4 Drawers	5	-	1	1	-	1	1	1

No	Item	Total	MLA	37% Calro	22% Alex	16% Giza	9.5% Qal	7.5% P.S.	7.5% Suez
18	Set of Drawers (2 Drawers and 1 File Drawer) (Mobica)	2	-	2	-	-	-	-	-
19	Metal Cabinets 180 cm.	7	-	2	2	1	-	1	1
20	Metal Cabinets 130 cm.	3	-	2	1	-	-	-	-
21	Bookcases, (3 shelves) (Mobica)	11	-	4	3	1	1	1	1
22	Bookcases (4 Shelves)	7	-	2	1	1	1	1	1
23	Bookcase with Glass Doors (Omega)	1	-	1	-	-	-	-	-
24	Bookcase, 3 Shelves, Sliding Glass Doors (Mobica)	1	-	1	-	-	-	-	-
25	Bases for the Bookcases	11	-	4	3	1	1	1	1
26	Small Bases	2	-	2	-	-	-	-	-
27	Blackboards	4	-	-	1	1	1	1	-
28	Printing Calculators (Sharp)	5	-	-	1	1	1	1	1
29	Safes	2	-	1	1	-	-	-	-
30	Xerox Machine (1026)	1	-	-	-	-	-	-	1
31	Sharp (Xerox Machine)	3	-	1	1	1	-	-	-
32	Sharp (Printing Machine)	1	1	-	-	-	-	-	-
33	Electric English Typewriter (IBM)	3	-	1	1	1	-	-	-
34	Electric Arabic Typewriter (IBM)	1	-	-	-	-	1	-	-
35	Electric Arabic Typewriter (Xerox)	1	-	-	-	-	-	-	1
36	Vacuum Cleaner	1	-	1	-	-	-	-	-
37	Fans	2	-	1	1	-	-	-	-
38	Binding Machine	1	-	1	-	-	-	-	-
39	Paper Cutter	1	-	1	-	-	-	-	-
40	Telephone Exchange (English Type NTS) 8/56	1	1	-	-	-	-	-	-

No	Item	Total	MLA	37% Calro	22% Alex	16% Giza	9.5% Qal	7.5% P.S.	7.5% Suez
41	Telephones (French Type)	45	45	-	-	-	-	-	-
42	Fax Machines	2	1	1	-	-	-	-	-
43	Slide Projectors	5	-	1	1	1	1	1	-
44	Overhead Projector	3	1	1	-	1**	-	-	-
45	Data Show (PC Viewer)	1	1	-	-	-	-	-	-
46	Video Camera with Stand	1	1	-	-	-	-	-	-
47	Screens	3	1	1	-	1**	-	-	-
48	T.V. (28") Phillips and 14" Sharp	2	1 28"	-	1	-	-	-	-
49	VCR 2 Toshiba, 3 Systems and 1 Goldstar 2 Systems	2	1 Toshiba	-	1	-	-	-	-
50	Flip Chart Boards	2	-	1	1	-	-	-	-
51	Camera	3	-	1	1	1	-	-	-
52	Split Unit Air Condition	1	-	1	-	-	-	-	-
53	Jeep Wagoner Vehicles	7	1	1	1	1	1	1	1

** Promised to Giza Desert Garage

append\inv

Appendix 12

**PROFILE OF LMU ACHIEVEMENTS
BY GOVERNORATE**

PROFILE OF SUEZ LAND MANAGEMENT UNIT
(As of End March, 1992)

o **Status Prior to the Land Management Program**

Suez was targeted for technical assistance over the period 1978-1983 by the British ODA and UNDP sponsored in house technical assistance teams for urban development.

The governorate had a Planning and Urban Development Department and a Land Protection Agency. The Planning and Urban Development Department was responsible for processing land requests and architectural and structural design of Bab III investment projects. No specific unit to implement urban upgrading or new lands development projects using governorate controlled land as an asset was in existence.

o **Establishment of a Land Management Unit (LMU) Organization**

The Land Management Unit (LMU) was established by Decree No. 41 in June, 1989. A new Governor reorganized the LMU in May, 1991 and appointed a new Director and key staff under the General Department of Urban Development and Planning. This Department included the Suez Land Protection Agency (Amlak) organization and other planning entities under one organization umbrella. The Land Management Unit as a project implementation unit is now under the Urban Planning Organization.

o **Achievements**

At this time, the following achievements have been realized;

- LMU director and staff appointed;
- Board of Directors or Policy Committee established;
- Office space allocated;
- Furnishings/equipment support provided;
- Key LMU staff completed participation in the in-country training program in 1990 and 1991;
- Key staff also completed participation in overseas training at Michigan State University in 1990, and a Turkey Study Tour in 1991.
- Suez staff are temporarily using training and MIS computer facilities to develop the following spreadsheets;
 - Project financial analysis;
 - Office budgets;
 - Project implementation schedule;

Suez has requested that the LD-II Urban project "80386" computer and supporting software be demobilized for their use. Installation and timing depends on a final demobilization plan and approval of (GOE) authorities. Land Management Information System (LMIS) custom-built arabized software is planned to be installed in 1992.

The LMU pilot upgrading project of Kafr El Arab El Mamal has been scoped out; presented; approved; and is currently underway. From the over 700,000 LE collected from area residents, 300,000 LE has been approved for construction of sewerage lines. This construction is expected soon.

The LMU is currently pursuing other projects such as the El Hommiat Hospital; the El Khour and El Hisha Upgrading project; El Maghraby Upgrading project and a project involving light industrial areas. These projects are currently being studied with mobilization strategies under development. A revised site plan; financial plan; and implementation schedule was recently completed for the El Hommiat project.

PROFILE OF PORT SAID LAND MANAGEMENT UNIT
(As of End March, 1992)

o **Status Prior To the LD-II Land Management Program**

Port Said was targeted for technical assistance over the period 1978-1983 by the British ODA and UNDP sponsored in-house technical assistance teams for urban development.

The Governorate had a Physical Planning Department with a role to develop and update the governorate Master Plan prepared in 1976 including detail action plans for selected areas within the framework of the Master Plan. There was also in existence a Land Planning entity primarily responsible for resolving problems with military land. State property and control of land is under the Amlak Department of the governorate.

Port Said had no specific organization unit dedicated to implementing a specific project or projects with cost-recovery and revenue generation from the management of governorate controlled land as an asset.

o **Establishment of a Land Management Unit (LMU) Organization**

A Land Management Unit (LMU) organization was formed in 1989 through Decrees 46, 552, and 1426 to implement projects using governorate controlled land as an asset to achieve cost-recovery and revenue generation. The governorate elected to set up this unit as a Technical Amana function reporting to the General Secretary outside the existing structures of the above planning organizations. Seconded staff were appointed to this Amana.

o **Achievements**

At this time, the following achievements have been realized;

- LMU director and staff appointed;
- Board of Directors or Policy Committee established;
- Office space allocated;
- Furnishings/equipment support provided;
- Key LMU staff completed participation in the in-country training program in 1990 and 1991;
- Key staff also completed participation in overseas training at Michigan State University in 1990, and a Turkey Study Tour in 1991.
- Selected hardware/software computer equipment and arabized systems installed. These are being used by LMU staff for the following applications;
 - Land Management Information System, (LMIS);
 - Project financial analysis spreadsheet;
 - Office budgets;
 - Project implementation schedule; and finally,
 - Desktop mapping.

A pilot upgrading project in El Arab District has been identified. Initial revenue generation through a land sale auction is expected soon. The project was scoped out by LMU staff and approved by local popular councils and the Governor. Initial on-the-ground activity has been implemented in regards to site clearance and preparation.

The LMU is currently pursuing other projects that include, the El Amal Touristic Project which is under study and another phase of the El Kabouti project in which previous phases are under construction.

PROFILE OF GIZA LAND MANAGEMENT UNIT
(As of End March, 1992)

o **Status Prior To LD-II Land Management Program**

Giza was target of technical assistance efforts under the IBRD - sponsored Extension of Municipal Services (EMS) project which ran from 1984-1986. Detailed proposals were submitted to this governorate under this program for a Land Management Unit organization. No concrete steps prior to the LD-II Urban program to implement an LMU organization were realized however. Giza had governorate plans through the Greater Cairo Master Scheme prepared by the General Organization for Physical Planning, (GOPP). This governorate had a Physical Planning Advisor and small physical planning offices serving Giza City and the village councils, including a strong Amlak organization.

Neither the governorate or city had a specific organization responsible for implementing and monitoring projects using governorate land to achieve cost-recovery and revenue generation.

o **Establishment of a Land Management Unit (LMU) Organization**

Giza elected to establish two LMU organizations through Decree No. 711 in 1989. The Governorate level LMU under the Amlak Department would be responsible for developing project action, implementation, and financial plans using governorate controlled land as an asset. The City level LMU would be responsible for day to day execution of the plans and on-the-ground construction activity. The governorate LMU Director also serves as the Amlak Director. A special implementation committee was recently set up by the Giza City Mayor to expedite LMU pilot project construction. New staff were appointed to this committee in 1992.

o **Achievements**

At this time, the following achievements have been realized;

- LMU Director and staff appointed at the Giza City and Governorate LMU levels;
- Board of Directors or Policy Committee established;
- Office Space allocated;
- Furnishings/equipment support provided;
- Key LMU staff have completed participation in the in-country training program in 1990 and 1991;
- Key staff also completed participation in overseas training at Michigan State University in 1990, and a Turkey Study Tour in 1991.
- Selected hardware/software computer equipment and arabized systems have been installed at the governorate LMU. These are being used by LMU staff for the following applications;
 - LMIS (Land Management Information System);
 - Project financial analysis spreadsheets;
 - Project implementation schedule; and finally,
 - Office budgets.

The pilot upgrading project for Manshiat El Bakary was scoped out; presented; approved; and successfully received priority for a small start-up fund allocation under other USAID programs and the LD II Urban Program in 1991 for additional construction activity. This would build upon construction of previous component upgrading subprojects in the study area under other USAID programs and the LD-II Urban Program. A new adjusted Form # 1 to expend a reduced allocation of funds is expected soon identifying other project cost components.

PROFILE OF CAIRO LAND MANAGEMENT UNIT
(As of End March, 1992)

o Status Prior To LD-II Land Management Program

Cairo was the target of technical assistance efforts under the IBRD sponsored Extension of Municipal Services (EMS) project over the period from 1984 - 1986. Though this program recommended establishing a LMU organization, no concrete steps to implement this organization were realized.

This governorate along with Giza and Qaliubia had governorate structural and master plans prepared by the General Organization for Physical Planning (GOPP) under the Greater Cairo Master Scheme. Prior to the LD-II Urban Program, Cairo had an Urban Planning Department under the Housing Directorate and an Amlak Department under the General Secretary. Other entities included the Economic Housing Fund Board of Directors; a Governor's Advisor for Legal Affairs and a Governor's Advisor for Technical Engineering Affairs.

o Establishment of A Land Management Unit (LMU) Organization

Cairo experienced three governor changes during the LD-II Urban program. Under the administration of Governor Youssef Abou Taleb, Cairo was the first to recognize the need for an LMU organization to achieve cost-recovery and revenue generation on projects using governorate controlled land as an asset.

Decree 238 issued in 1988 and executed by Governor Youssef Abu Taleb established a Land Development Agency (LDA) and functions, but did not specify staff and other requirements to fully achieve an operational office. Governor's Decree 413/1990 issued by Governor Mahmoud Sherif established the formation of an LMU but did not specify staff. Governor's decree 579/1990 issued in May by H.E. Mahmoud Sherif was a land allocation decree for the Kattamia project to be implemented through the LMU. Decree No. 924/1991 issued by H.E. Omar Abdel Akher appointed LMU staff. His decree 376 of December, 1991 established an LMU Policy Committee or Board of Directors. The LMU is currently finalizing office space improvements and considering other financing options for the Kattamia project since it was not able to receive funding priority under the LD-II Urban program during 1991.

o Achievements

Since Cairo officially appointed seconded staff to the LMU program in mid 1991, the following are achievements,

- LMU Technical and Managing Directors along with core staff appointed;
- Board of Directors or Project Policy Committee established;
- Office space allocated and improvements to be finished in 1992;
- Furnishings/equipment support completed in 1992;
- Key LMU staff completed participation in-country training programs during 1991;
- Key staff completed a Turkey Study Tour in 1991;
- Selected hardware/software computer equipment and arabized systems to be installed in 1992;

The pilot LMU new lands development sites and services project in Kattamia was previously scoped out under the Extension of Municipal Services (EMS) Program but updated by LMU staff and approved by the Governor. Funding for this project was once prioritized under the first then second tranche but remains uncertain at this time. LMU staff are currently exploring alternate project financing options such as the possibility of investment banks to begin project implementation. An alternate option is to request funds for the project in the next allocation from the Ministry of Local Administration (MLA) during 1992.

Another project under consideration includes relocation of CCBA facilities in El Zawia El Hamra with cost-recovery achieved through revenues gained from sale of the vacated land. This project is currently being scoped out by LMU staff.

PROFILE OF QALIUBIA LAND MANAGEMENT UNIT
(As of End March, 1992)

o Status Prior To LD-II Land Management Program

Qaliubia had a governorate urban planning office with two urban planners created by Governor's decree in 1984 to advise the General Secretary on actions related to urban planning. Other urban planning offices and actual day to day planning activities were conducted in a decentralized fashion to advise the City and Village Councils who relate directly to the Governor. No organization entity was responsible for implementation of cost-recovery concepts for projects using governorate controlled land as an asset. Qaliubia like Giza, had governorate wide structural plans through the Greater Cairo Master Scheme prepared by the General Organization of Physical Planning, (GOPP).

o Establishment of A Land Management Unit (LMU) Organization

Through Decree 653, Qaliubia elected in 1989 to set up two LMU organizations. The LMU at the governorate level would be responsible for assisting in scoping out projects and compiling information for future projects. An LMU at Shoubra El Kheima City was established to specifically look at urban upgrading projects with the assistance of the governorate LMU. The City LMU would be responsible for actual project implementation using what limited governorate controlled urban land existed as an asset to achieve cost-recovery and revenue generation on a project. New staff to the City LMU and a new Governor were appointed in 1991.

o Achievements

At this time, the following achievements have been realized;

- LMU director and staff appointed at the Shoubra El Kheima City and Governorate level LMU's;
- Board of Directors or Policy Committee established;
- Office space allocated for both LMU's;
- Furnishings/equipment support provided;
- Key LMU staff have completed participation in the in-country training program in 1990 and 1991;
- Key staff also completed participation in overseas training at Michigan State University in 1990, and a Turkey Study Tour in 1991.
- Selected hardware/software computer equipment and arabized systems have been installed at the governorate level. These are being used by LMU staff for the following applications;
 - LMIS (Land Management Information System);
 - Project financial analysis spreadsheet;
 - Project implementation schedule; and finally,
 - Office budgets;

Qaliubia LMU staff at the City level with assistance of governorate LMU staff identified an upgrading project along El Sharkawia Canal and presented their recommendations to the General Secretary who received approval of the project from the former governor. Staff have not been successful in getting access to the new governor appointed in 1991 to take further steps to implement this project. They prioritized this project under the second tranche of the LD-II Urban Investment Plan which remains uncertain at this time.

LMU staff previously identified and prepared scoping reports for upgrading projects in Manshiat El Horreya and El Hegazzie but were not successful in getting funding for these upgrading projects.

PROFILE OF ALEXANDRIA LAND MANAGEMENT UNIT
(As of End March, 1992)

o **Status Prior To LD-II Land Management Program**

Alexandria had an urban and physical planning organization under the Housing Directorate. Governorate wide structural plans and a master plan were developed primarily through assistance of Alexandria University.

The governorate had a strong Land Protection Agency (Amlak) which was responsible for land allocation; land tenure settlements; encroachment resolution; pricing; legal affairs; archives and financial and administrative issues. Coordination with the planning organization was mixed in the development of projects to achieve cost-recovery using governorate controlled land as an asset. This was a new concept not easily understood or appreciated by some key governorate officials.

o **Establishment of A Land Management Unit (LMU) Organization**

An LMU organization at the governorate level was established late November 1989 under the Land Protection Agency (Amlak) by Decree 254, with participation of a planner. As a unit under the Land Protection Agency, the LMU was specifically organized to develop a project using LD-II Urban investment plan or other funding resources for project activity. An industrial relocation project was identified but this has been transferred to the district for implementation. The planner on the LMU staff has been re-assigned.

o **Achievements**

At this time, the following achievements have been realized;

- LMU director and staff appointed;
- Office space allocated;
- Furnishings/equipment support provided;
- Key LMU staff completed participation in the overseas training programs at Michigan State University in 1990 and a Turkey Study Tour in 1991;
- Selected hardware/software computer equipment and arabized systems installed;

A pilot LMU project (El Mansheya El Geddida) consisting of relocating incompatible industrial workshop land uses from an urban area was under consideration but this was transferred to the district for further development and implementation by other non-LMU governorate authorities.

Appendix 13

**LMU RECOMMENDATIONS BY USAID
TECHNICAL ASSESSMENT TEAM**

**DETAILED RECOMMENDATIONS BY
INDEPENDENT TECHNICAL ASSESSMENT TEAM**

1. Introduction

This section presents detailed recommendations at three levels sited under Section V of the Land Management Program. These findings are based on assessment of the program by an independent assessment team in May and June of 1992.

1.1. Level One Recommendations

These recommendations propose a few simple, cost effective elements which complement past institutionalization and skill development efforts and also aim at removing constraints to the fuller functioning of LMUs. They would need the endorsement and/or involvement of the MLA. Because of the immediacy of the need, these recommendations should also be taken into consideration by USAID and the contractor selected for the upcoming LD II transitional phase.

- (1) Establish a forum for the exchange of information and ideas among LMU staff - On a regular (monthly or bimonthly) basis, the LMU staff of all governorates should be able to meet and discuss problems and solutions to them, exchange ideas, express needs, and in general reinforce each other's efforts. Meetings could be revolving, that is taking place in one different governorate each time. The sessions would be semi-structured, with a moderator who would prepare materials and make arrangements as needed. One of the outputs of these sessions would be progress and analysis reports prepared by LMU staff themselves.
- (2) Undertake at the highest levels of MLA (and specifically in the Legal Affairs and Organization and Administration Departments) a review of the legislation governing the Economic Housing Funds, with the aim of preparing model executive regulations, for adoption by governorates, which clearly provide for separate revolving funds for State land development, to be managed by LMUs or other similar departments.
- (3) Set up an annual seminar on land management to which MLA undersecretaries, the governors, secretary generals, and other governorate officials (as well as LMU staff) would be invited. This would follow on the success of the Land Management Executive Seminar held in February 1991 and could be modeled roughly after it. The aim would be to heighten awareness of land management issues and also to present the progress and problems experienced by LMUs.
- (4) Complete the provision of needed equipment to LMUs, based on functional need. Each governorate LMU could use more equipment, and a small fund to allow purchases, should be set up, with needs defined by LMUs themselves. Survey equipment, vehicles, and modest computer support are among the items which might be needed.
- (5) Establish a small fund for technical studies which LMUs could tap for social surveys, feasibility studies, joint venture project designs, design competitions, etc. which are beyond the internal capacities of the LMUs themselves. Local private sector consultants would be contracted and managed by the governorate LMUs themselves, and thus they would build up a capacity to obtain timely and relevant technical support for project activities.

- (6) Establish a small fund for basic training of new LMU staff and practical deepening of skills already acquired by existing staff. These would allow LMU skill development through existing training programs and institutions in Egypt."

1.2 Level Two Recommendations

"Depending on the progress of LMUs in expanding their efforts and competence and also the results of the activities under Level One above, the following significant support should be considered:

- (1) Continue and depend, as required, the support elements recommended under Level One above.
- (2) Establish a central revolving fund to which governorate LMUs can present proposals either for project seed capital or for project loans. Full justification from both social and financial aspects would be required. One possibility would be to allocate from future Local Development funds a reserve for such a purpose, with approved monies being channeled through a subfund of a governorate's Economic Housing Fund. The use of other funds, such as the Social Development Fund, could also be considered.
- (3) Strengthen the inventory and protection processes for State lands in governorates where LMUs are operating. This would involve considerable support to Amlak Departments in terms of computers and associated software, survey equipment, training, vehicles, and perhaps funds for aerial photography.
- (4) Launch on pilot basis a computer-based Land Information System in Cairo, Alexandria, and/or Suez governorates (where the need is greatest, in terms of urban expansion and opportunities presented by considerable State lands). The system would be result-oriented (linked to (1) and (2) above) and assistance would need to be organized in such a way to ensure that, once installed, there would be continuous updating and applications retrieval. Compatibility with other proposed systems (such as being considered at GOPP) would be required.

1.3 Level Three Recommendations

"The aim of this longer-run effort would be to replicate the LMU concept in other governorates of Egypt. A precondition would be continued progress of existing LMUs, particularly with the support proposed under Level One. Another precondition would be active interest on the part of the candidate governorates.

In this effort some of the staff of existing LMUs and local consultants involved with them would be the core "propagators". A modest level of technical assistance would first be required, with a second level of more considerable support tied to progress.

As a "model" the LMUs in Giza and Qaliubia would be the most appropriate, as they are, in administrative terms, rural governorate, and the relations they have worked out between the governorate and its towns could be easily repeated."

Appendix 14

TRAINING COURSES COMPLETED

TABLE II
 LOCAL DEVELOPMENT II URBAN PROJECT
 COURSES COMPLETED FROM 1988 THRU JUNE 1992
 (By Course)

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days
BS001	CONSTR. MGMT. - PLAN & DESIGN	ENGINEERS	SUEZ	06/01/88	10	6	60
			QALUBAYIA	06/16/89	9	6	48
			ALEXANDRIA	06/24/89	17	5	114
			GIZA	06/16/89	4	5	24
			PORT SAID	06/12/88	15	5	90
			Subtotals :				36
BS002	CONSTR. MGMT. - MONITOR & EVAL	ENGINEERS	ALEXANDRIA	07/08/89	19	6	114
			SUEZ	06/22/88	15	6	90
			PORT SAID	07/03/88	15	6	90
			GIZA	07/01/89	4	6	24
			QALUBAYIA	07/01/89	8	6	48
			Subtotals :				61
BS003	BUDGETING & FINANCE	FISCAL MANAGERS	QALUBAYIA	09/02/89	25	8	200
			PORT SAID	05/27/90	19	9	171
		ACCOUNTANTS	PORT SAID	10/24/88	24	8	192
			CAIRO	07/07/91	1	9	9
		FISCAL MANAGERS	ALEXANDRIA	07/01/89	25	8	200
			CAIRO	08/05/89	29	8	232
		ACCOUNTANTS	GIZA	06/19/89	19	8	152
			PORT SAID	17/07/91	1	9	9
		FISCAL MANAGERS	SUEZ	06/09/90	24	8	192
			GIZA	07/07/91	1	9	9
		ACCOUNTANTS	SUEZ	07/07/91	2	9	18
			CAIRO	02/19/90	25	9	225
		FISCAL MANAGERS	QALUBAYIA	07/07/91	12	9	108
			SUEZ	11/07/88	25	8	200
		ACCOUNTANTS	ALEXANDRIA	07/07/91	1	9	9
		Subtotals :				233	128
BS004	BSDS - INTRO. TO COMPUTERS	ACCOUNTANTS	QALUBAYIA	02/16/92	7	5	35
			GIZA	02/02/92	5	5	25
			CAIRO	02/15/92	5	5	25
			Subtotals :				17
BS012	QUALITY CONTROL - CONCRETE	ENGINEERS	CAIRO	01/23/90	25	5	125
			ALEXANDRIA	02/11/90	25	5	125
			SUEZ	01/14/90	5	5	25
			ALEXANDRIA	09/24/89	25	5	125
			ALEXANDRIA	12/17/89	25	5	125
			ALEXANDRIA	05/23/92	20	6	120
			CAIRO	09/16/89	18	5	90
			CAIRO	05/12/92	18	6	108
			GIZA	03/27/89	10	4	40
			GIZA	09/20/89	10	2	20
			GIZA	12/10/89	15	5	75
			GIZA	05/12/92	2	5	10
			PORT SAID	03/27/89	10	4	40
			PORT SAID	09/30/89	10	2	20
			PORT SAID	01/14/90	5	5	25

LOCAL DEVELOPMENT II URBAN PROJECT
COURSES COMPLETED FROM 1988 THRU JUNE 1992
 (By Course)

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days
BS012	QUALITY CONTROL - CONCRETE	ENGINEERS	PORT SAID	05/16/92	8	6	48
			GALUBAYIA	03/27/89	10	4	40
			GALUBAYIA	09/20/89	8	2	16
			GALUBAYIA	12/10/89	11	5	55
			GALUBAYIA	05/12/92	5	6	30
			SUEZ	05/16/92	10	6	60
			SUEZ	03/27/89	12	4	48
			SUEZ	09/30/89	12	2	24
			Subtotals :				299
BS013	INSPECTION-ELEC/MECH COMPONENT	ENGINEERS	ALEXANDRIA	03/12/89	19	4	76
			ALEXANDRIA	12/23/89	25	4	100
			ALEXANDRIA	05/09/92	20	6	120
			CAIRO	03/22/89	14	4	56
			CAIRO	03/11/90	25	6	150
			CAIRO	05/23/92	10	6	60
			GIZA	06/03/89	9	6	54
			GIZA	12/30/89	7	6	42
			GIZA	05/23/92	10	6	60
			PORT SAID	06/10/89	10	6	60
			PORT SAID	12/16/89	10	6	60
			PORT SAID	04/18/92	12	6	72
			GALUBAYIA	06/03/89	9	6	54
			GALUBAYIA	12/30/89	7	6	42
			GALUBAYIA	05/23/92	4	6	24
			SUEZ	06/10/89	10	6	60
SUEZ	12/16/89	15	6	90			
SUEZ	04/18/92	12	6	72			
Subtotals :				228	102	1252	
BS014	FOUNDATION OF LIGHT CONSTRUC.	ENGINEERS	GIZA	08/26/90	3	10	30
			PORT SAID	12/02/90	22	10	220
			ALEXANDRIA	04/19/92	24	10	240
			GALUBAYIA	02/08/92	5	10	50
			GALUBAYIA	08/26/90	7	10	70
			SUEZ	02/09/91	16	10	160
			CAIRO	02/23/91	19	11	209
			CAIRO	08/26/90	5	10	50
			PORT SAID	01/12/91	22	10	220
			CAIRO	06/08/91	19	12	228
			GIZA	02/08/92	7	10	70
			PORT SAID	02/15/92	11	10	110
			CAIRO	02/08/92	10	10	100
			SUEZ	02/15/92	7	10	70
			ALEXANDRIA	04/29/91	14	12	168
			Subtotals :				202
BS035	MAINTENANCE OF BUILDINGS	ENGINEERS	CAIRO	03/07/91	10	1	10
			CAIRO	01/21/91	5	1	5
			GIZA	02/18/91	5	1	5
			SUEZ	01/21/91	5	1	5
			GALUBAYIA	02/05/90	11	1	11
			SUEZ	08/17/91	5	1	5
			PORT SAID	02/24/90	10	1	10
			SUEZ	02/25/90	5	1	5

LOCAL DEVELOPMENT II URBAN PROJECT
COURSES COMPLETED FROM 1988 THRU JUNE 1992
 (By Course)

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainees Days			
BS035	MAINTENANCE OF BUILDINGS	ENGINEERS	PORT SAID	08/17/91	1	5	6			
			QALUBAYIA	08/17/91	3	6	18			
			GIZA	08/17/91	2	6	12			
			CAIRO	02/11/90	25	3	75			
			ALEXANDRIA	03/17/90	25	2	50			
			ALEXANDRIA	05/16/92	20	3	60			
			ALEXANDRIA	10/21/91	3	4	12			
			ALEXANDRIA	08/17/91	1	6	6			
			ALEXANDRIA	03/11/90	25	4	100			
			Subtotals :					164	76	377
BS070	BSDS COST ANALYSIS	GOVERNORS/SECURE	SUEZ	03/10/91	21	1	21			
			QALUBAYIA	03/04/91	14	1	14			
			GIZA	03/04/91	23	1	23			
			PORT SAID	03/02/91	22	2	44			
			ALEXANDRIA	03/14/91	29	1	29			
Subtotals :					109	6	131			
BS083	NEEDS ASSESSMENT UTILITIES	ENGINEERS	PORT SAID	12/03/91	24	3	72			
			GIZA	11/14/91	21	1	21			
			CAIRO	11/25/91	21	3	63			
			CAIRO	10/29/91	36	3	108			
			QALUBAYIA	12/22/91	24	3	72			
		HIGH LEVEL OFFI ENGINEERS	SUEZ	11/04/91	13	3	39			
			ALEXANDRIA	10/15/91	44	3	132			
			CAIRO	09/24/91	12	3	36			
			Subtotals :					195	22	543
			BS085	BSDS ORIENTATION	ACCOUNTANTS	PORT SAID	10/09/91	16	1	16
QALUBAYIA	10/14/91	11				1	11			
ENGINEERS	PORT SAID	06/30/92			13	1	13			
	ACCOUNTANTS	PORT SAID			04/29/92	38	1	38		
ACCOUNTANTS	CAIRO	01/28/92			40	1	40			
	CAIRO	10/02/91			21	1	21			
ENGINEERS	GIZA	02/02/92			36	1	36			
	CAIRO	01/27/92			35	1	35			
ENGINEERS	ALEXANDRIA	02/06/92			25	1	25			
	CAIRO	02/28/92			31	1	31			
ACCOUNTANTS	ALEXANDRIA	06/25/92			13	1	13			
	GIZA	10/14/91			19	1	19			
PLANNERS	ALEXANDRIA	09/25/91			21	1	21			
	FISCAL MANAGERS	SUEZ			01/14/92	29	1	29		
ACCOUNTANTS	QALUBAYIA	01/12/92			25	1	25			
	ENGINEERS	SUEZ			10/09/91	13	1	13		
ENGINEERS	QALUBAYIA	06/22/92			9	1	9			
	SUEZ	06/23/92			11	1	11			
ACCOUNTANTS	GIZA	06/22/92			11	1	11			
	CAIRO	10/01/91			35	1	35			
Subtotals :					452	20	452			
BS089	ACCOUNTING & FINANCIAL REPORT	ACCOUNTANTS	CAIRO	12/01/91	19	5	95			
			ALEXANDRIA	02/23/92	20	5	100			
			SUEZ	11/17/91	10	5	50			

LOCAL DEVELOPMENT II URBAN PROJECT
COURSES COMPLETED FROM 1988 THRU JUNE 1992
(By Course)

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days	
BS089	ACCOUNTING & FINANCIAL REPORT	ACCOUNTANTS	CAIRO	11/10/91	15	5	75	
			SALUBAYIA	01/26/92	10	5	50	
			PORT SAID	11/17/91	11	5	55	
			GIZA	01/26/92	12	5	60	
			Subtotals :				37	35
BS103	CONTRACTS MANAGEMENT	ENGINEERS	PORT SAID	05/31/92	15	5	75	
			CAIRO	05/10/92	13	5	65	
			GIZA	05/10/92	6	5	30	
			SUEZ	05/31/92	15	5	75	
			ALEXAMBRIA	05/17/92	20	5	100	
Subtotals :				69	25	345		
BS903	BSDS OVERSEAS		QALUBAYIA	10/18/91	5	13	65	
			SUEZ	10/18/91	4	13	52	
			PORT SAID	10/18/91	4	13	52	
			ALEXAMBRIA	10/18/91	4	13	52	
			CAIRO	10/18/91	4	13	52	
			GIZA	10/18/91	5	13	65	
Subtotals :				26	78	338		
BS913	BSDS OVERSEAS EVALUATION	PLANNERS	ALEXAMBRIA	06/21/92	4	1	4	
			PORT SAID	06/21/92	4	1	4	
			GIZA	06/21/92	5	1	5	
			SUEZ	06/21/92	4	1	4	
			CAIRO	06/21/92	4	1	4	
			QALUBAYIA	06/21/92	5	1	5	
Subtotals :				26	6	26		
LA010	PLANNING - LOCAL GOVERNMENT	HIGH LEVEL OFFI PLANNERS	SUEZ	04/20/92	31	10	310	
			PORT SAID	05/29/88	21	8	168	
			SUEZ	02/23/92	25	9	224	
			SUEZ	04/06/88	17	10	170	
			Subtotals :				95	37
LA011	FEASIBILITY STUDIES	SUPERVISORS	CAIRO	02/22/92	12	6	72	
			PLANNERS	PORT SAID	08/05/89	18	6	108
			SUPERVISORS	GIZA	02/22/92	6	5	36
		ONED/PLANNERS	GIZA	08/17/91	3	6	18	
			ACCOUNTANTS	PORT SAID	09/29/90	19	6	114
		PLANNERS	QALUBAYIA	07/24/89	15	6	90	
			SUPERVISORS	QALUBAYIA	02/22/92	7	6	42
		PLANNERS	CAIRO	07/24/89	29	6	174	
			ONED/PLANNERS	PORT SAID	08/17/91	1	6	6
		ONED/PLANNERS	CAIRO	08/17/91	10	6	60	
			SUEZ	08/17/91	1	6	6	
		PLANNERS	GIZA	07/24/89	15	6	90	
			ONED/PLANNERS	QALUBAYIA	08/17/91	3	6	18
		PLANNERS	ALEXAMBRIA	08/17/91	1	6	6	
			SUEZ	08/05/89	23	6	138	
ALEXAMBRIA	08/19/89		26	6	156			

LOCAL DEVELOPMENT II URBAN PROJECT
COURSES COMPLETED FROM 1988 THRU JUNE 1992
 (By Course)

06/28/92
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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Trainees	No. of Days	Trainee Days
Subtotals :					189	96	1134
LA016	LEADERSHIP SKILLS/CHIEF EXEC.	CHIEF EXECUTIVE	CAIRO	02/17/90	30	7	210
			PORT SAID	09/26/89	25	7	175
			SUEZ	11/28/89	26	6	156
			ALEXANDRIA	08/26/89	25	5	125
			QALUBAYIA	08/05/89	22	6	132
			CAIRO	10/30/89	29	7	203
			GIZA	08/12/89	32	6	192
			CAIRO	08/04/89	24	6	144
			ALEXANDRIA	01/15/90	25	7	175
			CAIRO	09/16/89	27	5	135
Subtotals :					265	62	1647
LA017	MGMT. LOCAL GOVT - POP. COUNCIL	POPULAR COUNCIL	SUEZ	11/29/89	21	3	63
			SUEZ	11/28/89	30	3	90
			CAIRO	02/25/90	27	4	108
			CAIRO	08/04/89	26	3	78
			ALEXANDRIA	03/20/90	19	2	38
			PORT SAID	09/30/89	26	4	104
			CAIRO	11/02/89	20	2	40
			GIZA	08/13/89	33	3	99
			ALEXANDRIA	01/15/90	20	4	80
			PORT SAID	09/26/89	19	6	114
			CAIRO	04/08/89	10	4	40
			SUEZ	01/15/89	28	2	56
			CAIRO	09/19/89	15	3	45
			ALEXANDRIA	08/26/89	32	5	160
			ALEXANDRIA	08/27/89	25	5	125
CAIRO	02/18/90	13	4	52			
QALUBAYIA	08/01/89	22	3	66			
GIZA	01/30/89	13	2	26			
QALUBAYIA	07/30/89	31	2	102			
Subtotals :					450	64	1486
LA033	CONSTRUCTION MGMT. ORIENTATION	GOVERNORS&SECPE ENGINEERS GOVERNORS&SECPE	QALUBAYIA	03/11/91	4	1	4
			CAIRO	02/22/89	18	4	72
			SUEZ	03/11/91	3	1	3
			PORT SAID	03/11/91	1	1	1
			GIZA	03/11/91	4	1	4
			CAIRO	03/11/91	13	1	13
			ALEXANDRIA	03/11/91	2	1	2
Subtotals :					45	10	99
LA034	LD II URBAN SEMINAR	GOVERNORS&SECPE	PORT SAID	02/11/91	4	1	4
			QALUBAYIA	02/11/91	6	1	6
			CAIRO	05/22/90	11	1	11
			ALEXANDRIA	05/22/90	1	1	1
		PIC'S	CAIRO	09/06/90	3	1	3
			SUEZ	09/06/90	1	1	1
			GIZA	05/28/90	40	1	40
			SUEZ	10/28/89	2	1	2
GOVERNORS&SECPE	PIC'S	SUEZ	12/02/90	7	1	7	
		CAIRO	12/02/90	7	1	7	

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days
LA034	LD II URBAN SEMINAR	PIC'S	SUEZ	12/02/90	4	1	4
		GOVERNORS&SECRE	CAIRO	03/26/90	31	1	31
		PIC'S	QALUBAYIA	12/02/90	4	1	4
			ALEXANDRIA	12/02/90	4	1	4
		GOVERNORS&SECRE	SUEZ	02/11/91	0	1	0
		PIC'S	PORT SAID	12/02/90	2	1	2
		GOVERNORS&SECRE	GIZA	10/24/89	7	1	7
		PIC'S	PORT SAID	10/20/90	2	1	2
		MANAGERS	CAIRO	11/05/90	49	1	49
		PIC'S	PORT SAID	09/06/90	1	1	1
			CAIRO	10/20/90	2	1	2
		GOVERNORS&SECRE	PORT SAID	11/14/90	24	1	24
		CHIEF EXECUTIVE	CAIRO	12/06/90	76	1	76
		MANAGERS	GIZA	12/10/90	34	1	34
		GOVERNORS&SECRE	ALEXANDRIA	02/11/91	4	1	4
		PIC'S	GIZA	12/02/90	4	1	4
		MANAGERS	ALEXANDRIA	11/28/90	31	1	31
		PIC'S	QALUBAYIA	10/28/90	2	1	2
			ALEXANDRIA	10/28/90	3	1	3
			QALUBAYIA	09/06/90	1	1	1
			GIZA	10/28/90	2	1	2
		GOVERNORS&SECRE	SUEZ	02/19/90	50	2	100
			SUEZ	11/21/90	35	1	35
	QALUBAYIA	11/07/90	22	1	22		
PIC'S	GIZA	09/06/90	1	1	1		
	GIZA	05/22/90	1	1	1		
		Subtotals :			499	36	549
LA050	BUDGET CONCEPTS IN ENGLISH	HIGH LEVEL OFFI	ALEXANDRIA	05/16/90	23	19	437
LA055	ADMINISTRATIVE WORKSHOP		SUEZ	07/29/90	1	3	3
			GIZA	07/29/90	2	3	6
			ALEXANDRIA	07/29/90	1	3	3
			CAIRO	07/29/90	2	3	6
			PORT SAID	07/29/90	1	3	3
			QALUBAYIA	07/29/90	2	3	6
		Subtotals :			9	18	27
LA059	GOVERNORATE ANNUAL FISCAL PLAN	FISCAL MANAGERS	SUEZ	12/11/90	31	6	186
LA011	FEASIBILITY STUDY - LRU	LN STAFF	CAIRO	02/29/92	3	6	18
			GIZA	02/29/92	1	6	6
			QALUBAYIA	02/29/92	1	6	6
		Subtotals :			5	18	30
LA018	LRU - INTRO. TO LOTUS 123	LN STAFF	QALUBAYIA	07/27/91	4	5	20
			GIZA	07/27/91	2	5	10
			CAIRO	07/27/91	2	5	10
			SUEZ	07/27/91	2	5	10
		Subtotals :			10	20	30

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LN040	LN ORIENTATION WORKSHOP	LN STAFF	GIZA	03/10/90	7	6	42			
			SUEZ	09/15/91	4	5	20			
			PORT SAID	05/19/90	4	6	24			
			SUEZ	05/19/90	5	6	30			
			GIZA	09/15/91	5	5	25			
			SUEZ	03/24/90	8	5	40			
			QALUBAYYA	03/10/90	8	6	48			
			QALUBAYYA	09/15/91	3	5	15			
			GIZA	05/19/90	4	6	24			
			ALEXANDRIA	03/24/90	10	5	50			
			PORT SAID	03/10/90	7	6	42			
			ALEXANDRIA	05/19/90	5	6	30			
			PORT SAID	09/15/91	6	5	30			
			CAIRO	09/15/91	8	5	40			
			QALUBAYYA	05/19/90	4	6	24			
			Subtotals :					80	83	484
			LN041	LAND MNGT. EXECUTIVE SEMINAR	LN STAFF	PORT SAID	02/27/91	5	2	10
SUEZ	02/27/91	7				2	14			
QALUBAYYA	02/27/91	8				2	16			
ALEXANDRIA	02/27/91	7				2	14			
GIZA	02/27/91	9				2	18			
CAIRO	02/27/91	8				2	16			
Subtotals :					44	12	88			
LN042	LN COMPUTER BASIC SKILLS	ENGINEERS	PORT SAID	05/12/90	3	4	12			
			QALUBAYYA	05/07/90	4	4	16			
		LN STAFF	PORT SAID	06/24/90	3	5	15			
			SUEZ	06/24/90	3	5	15			
		ENGINEERS	PORT SAID	06/09/90	3	6	18			
			ALEXANDRIA	05/07/90	4	4	16			
		LN STAFF	GIZA	06/24/90	3	5	15			
			ENGINEERS	ALEXANDRIA	06/09/90	3	6	18		
		LN STAFF	QALUBAYYA	06/24/90	3	5	15			
			ENGINEERS	ALEXANDRIA	06/24/90	3	5	15		
		ENGINEERS	SUEZ	06/09/90	3	6	18			
			GIZA	05/12/90	5	4	20			
			SUEZ	05/12/90	4	4	16			
			GIZA	06/09/90	3	6	18			
	QALUBAYYA	06/09/90	3	5	18					
Subtotals :					30	75	243			
LN043	LNU ORGANIZATION & ADMIN.	LN STAFF	SUEZ	06/30/91	4	8	32			
			ALEXANDRIA	06/30/91	4	8	32			
			CAIRO	06/30/91	6	8	48			
			QALUBAYYA	06/30/91	4	8	32			
			PORT SAID	06/30/91	6	8	48			
			GIZA	06/30/91	5	8	40			
Subtotals :					29	48	232			
LN001	ADMINISTRATION OF LNU - HIS	LN STAFF	ALEXANDRIA	05/08/91	4	2	8			
			PORT SAID	05/08/91	3	2	6			
			GIZA	05/08/91	4	2	8			

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LN101	DEMONSTRATION OF LMU - HIS	LM STAFF	SUEZ	05/08/91	3	2	6
			QALUBAYIA	05/08/91	3	2	6
			CAIRO	05/08/91	2	2	4
			Subtotals :		19	12	30
LN105	LAND MNGT. PROJECT MONITORING	LM STAFF	CAIRO	05/30/92	4	6	24
			SUEZ	05/30/92	3	6	18
			GIZA	05/30/92	4	6	24
			PORT SAID	05/30/92	3	6	18
			QALUBAYIA	05/30/92	4	6	24
Subtotals :		18	30	108			
LN900	LMU OVERSEAS / MICHIGAN	LM STAFF	PORT SAID	06/25/90	4	30	120
			ALEXANDRIA	06/25/90	4	30	120
			SUEZ	06/25/90	3	30	90
			GIZA	06/25/90	4	30	120
			QALUBAYIA	06/25/90	3	30	90
Subtotals :		18	150	540			
LN906	LMU PRE DEPARTURE ORIENTATION	LM STAFF	CAIRO	11/05/91	3	1	3
			ALEXANDRIA	11/05/91	3	1	3
			QALUBAYIA	11/05/91	3	1	3
			GIZA	11/05/91	3	1	3
			PORT SAID	11/05/91	3	1	3
			SUEZ	11/05/91	3	1	3
Subtotals :		18	6	18			
LN909	LMU OVERSEAS/TURKEY STUDY TOUR	LM STAFF	ALEXANDRIA	11/10/91	3	11	33
			CAIRO	11/10/91	2	11	22
			GIZA	11/10/91	3	11	33
			PORT SAID	11/10/91	3	11	33
			QALUBAYIA	11/10/91	3	11	33
			SUEZ	11/10/91	3	11	33
Subtotals :		17	66	187			
LN912	LMU OVERSEAS RESULTS / EVALU.	LM STAFF	ALEXANDRIA	12/11/91	3	2	6
			QALUBAYIA	12/11/91	3	2	6
			CAIRO	12/11/91	3	2	6
			SUEZ	12/11/91	4	2	8
			GIZA	12/11/91	3	2	6
			PORT SAID	12/11/91	3	2	6
Subtotals :		19	12	38			
ML018	MLA - INTRO. TO LOTUS 123		CAIRO	05/23/92	7	6	42
			CAIRO	05/30/92	6	6	36
			GIZA	05/30/92	1	6	6
			SUEZ	05/23/92	1	6	6
			SUEZ	05/30/92	1	6	6

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Subtotals :					16	30	96
ML019	MLA - DBASE III *		CAIRO	06/27/92	7	6	42
ML604	MLA - ARABWORD	SUPERVISORS	CAIRO	04/06/92	4	4	16
			CAIRO	03/25/92	4	4	16
Subtotals :					8	8	32
MS004	MIS - INTRO TO COMPUTERS: DOS	MIS/STAFF	CAIRO	01/07/91	5	6	30
		ACCOUNTANTS	GIZA	05/03/92	6	6	36
		MIS/STAFF	ALEXANDRIA	09/03/88	9	5	45
			ALEXANDRIA	07/29/90	2	5	10
		PIC'S	ALEXANDRIA	05/29/90	2	3	6
		MIS/STAFF	ALEXANDRIA	03/10/91	5	7	35
			CAIRO	08/14/88	9	5	45
			SUEZ	06/15/91	2	4	8
		PIC'S	SUEZ	05/29/90	1	3	3
		MIS/STAFF	GIZA	01/27/91	6	7	42
			SUEZ	08/01/90	10	12	120
		ACCOUNTANTS	GIZA	04/18/92	6	6	36
		MIS/STAFF	SUEZ	07/29/90	2	5	10
			CAIRO	06/15/91	2	4	8
			SUEZ	09/03/88	9	5	45
			GIZA	06/08/91	3	4	12
			QALUBAYIA	06/08/91	5	4	20
			GIZA	07/29/90	2	5	10
		PIC'S	QALUBAYIA	05/29/90	1	3	3
		MIS/STAFF	CAIRO	12/23/90	3	6	18
			QALUBAYIA	07/29/90	2	5	10
			GIZA	06/15/91	4	4	16
			QALUBAYIA	07/10/88	9	5	45
			GIZA	12/23/90	3	6	18
		PIC'S	PORT SAID	05/29/90	1	3	3
			GIZA	05/29/90	1	3	3
		MIS/STAFF	PORT SAID	07/29/90	2	5	10
			GIZA	07/10/88	9	5	45
			PORT SAID	08/14/88	9	5	45
			CAIRO	06/08/91	6	4	24
			CAIRO	07/29/90	2	5	10
		PIC'S	CAIRO	05/29/90	2	3	6
Subtotals :					140	158	777
MS018	MIS - INTRO. TO LOTUS 123	MIS/STAFF	SUEZ	09/08/91	5	5	25
			PORT SAID	09/08/91	5	5	25
			CAIRO	08/24/91	5	5	25
			QALUBAYIA	08/24/91	5	5	25
			ALEXANDRIA	09/08/91	6	5	30
			GIZA	08/24/91	5	5	25
Subtotals :					31	30	155
MS019	MIS - ADV. DOS: DBASE III *	MIS/STAFF	QALUBAYIA	06/29/91	5	5	25
			SUEZ	07/06/91	5	5	25

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MS019	MIS - ADV. DBASE III	MIS/STAFF	GIZA	08/20/88	9	10	90	
			CAIRO	06/29/91	6	5	30	
			ALEXANDRIA	07/06/91	5	5	25	
			GIZA	06/29/91	4	5	20	
			CAIRO	09/24/88	9	10	90	
			ALEXANDRIA	10/29/88	9	10	90	
			PORT SAID	09/24/88	9	10	90	
			PORT SAID	07/06/91	5	5	25	
			SUEZ	10/29/88	9	10	90	
			QALUBAYYA	08/20/88	9	10	90	
			Subtotals :				84	90
MS020	INTRO TO MAFITHA	MIS/STAFF	CAIRO	02/08/89	9	2	18	
			GIZA	02/06/89	9	2	18	
			ALEXANDRIA	02/09/89	9	2	18	
			QALUBAYYA	02/07/89	9	2	18	
			SUEZ	02/13/89	9	2	18	
			PORT SAID	02/16/89	9	2	18	
			Subtotals :				54	12
MS021	MIS SUPERVISORS SEMINAR	MIS/MANAGERS	CAIRO	02/15/89	1	1	1	
			ALEXANDRIA	02/15/89	1	1	1	
			PORT SAID	02/15/89	1	1	1	
			SUEZ	02/15/89	1	1	1	
			GIZA	02/15/89	1	1	1	
			QALUBAYYA	02/15/89	1	1	1	
			Subtotals :				6	6
MS022	MIS - ADV. DBASE III PLUS	MIS/STAFF	SUEZ	08/10/91	5	5	25	
			CAIRO	08/03/91	6	5	30	
			SUEZ	06/26/89	9	8	72	
			GIZA	08/03/91	4	5	20	
			QALUBAYYA	08/03/91	5	5	25	
			ALEXANDRIA	08/10/91	6	5	30	
			QALUBAYYA	06/28/89	9	8	72	
			GIZA	05/27/89	9	8	72	
			PORT SAID	08/10/91	6	5	30	
			CAIRO	05/24/89	9	8	72	
			PORT SAID	05/22/89	9	8	72	
			ALEXANDRIA	06/19/89	9	8	72	
			Subtotals :				86	78
MS023	INTRO. TO SYSTEMS ANALYSIS	MIS/STAFF	ALEXANDRIA	11/10/91	5	10	50	
			PORT SAID	11/10/91	4	10	40	
			QALUBAYYA	07/24/89	9	10	90	
		MIS/SUPERVISORS	CAIRO	10/27/91	4	10	40	
			MIS/STAFF	PORT SAID	06/09/89	9	17	153
				SUEZ	11/10/91	4	10	40
		SUEZ		08/12/89	9	10	90	
		MIS/SUPERVISORS	GIZA	07/24/89	9	10	90	
			QALUBAYYA	10/27/91	4	10	40	
			GIZA	10/27/91	6	10	60	
		MIS. STAFF	ALEXANDRIA	01/06/90	10	10	100	

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MS023	INTRO. TO SYSTEMS ANALYSIS	MIS/STAFF	CAIRO	01/13/90	25	10	250	
				Subtotals :	25	10	250	
MS024	MIS EXECUTIVE MANAGERS	MIS/MANAGERS	QALUBAYIA	07/25/89	8	1	8	
				SUEZ	03/28/89	4	2	8
				GIZA	07/25/89	10	3	30
				GIZA	03/28/89	2	1	2
				CAIRO	07/25/89	21	1	21
				ALEXANDRIA	08/05/89	15	1	15
				QALUBAYIA	03/28/89	4	3	12
				SUEZ	07/25/89	4	3	12
				PORT SAID	03/28/89	6	1	6
				ALEXANDRIA	03/28/89	2	3	6
Subtotals :				76	17	120		
MS025	HARVARD GRAPHICS	MIS/STAFF	SUEZ	09/09/89	9	7	63	
				CAIRO	09/02/89	9	5	54
				SUEZ	10/27/90	7	6	42
		DRED/PLANNERS	PORT SAID	10/27/90	5	6	30	
				PORT SAID	08/16/89	11	6	66
				GIZA	10/01/89	9	5	54
		MIS/STAFF	ALEXANDRIA	09/23/89	9	6	54	
				QALUBAYIA	09/16/89	11	6	66
				Subtotals :			70	49
MS039	MIS SUPERVISORS WORKSHOP	MIS/SUPERVISORS	PORT SAID	12/16/89	2	5	12	
				QALUBAYIA	12/16/89	2	5	12
				GIZA	12/16/89	2	5	12
				SUEZ	12/16/89	2	5	12
				ALEXANDRIA	12/16/89	2	5	12
				CAIRO	12/16/89	2	6	12
				Subtotals :			12	36
MS051	APPLICATION DEVELOPMENT	MIS/STAFF	QALUBAYIA	09/09/90	2	12	24	
				CAIRO	09/02/90	3	12	36
				CAIRO	09/09/90	2	12	24
				PORT SAID	09/02/90	3	12	36
				GIZA	09/02/90	2	12	24
				SUEZ	09/09/90	3	12	36
				SUEZ	03/17/90	2	12	24
				QALUBAYIA	09/02/90	2	12	24
				CAIRO	03/17/90	2	12	24
				QALUBAYIA	03/17/90	2	12	24
				PORT SAID	09/09/90	2	12	24
				PORT SAID	03/17/90	2	12	24
				GIZA	03/17/90	2	12	24
				GIZA	09/09/90	3	12	36
				ALEXANDRIA	03/17/90	3	12	36
				Subtotals :			35	180
MS090	SYSTEMS DESIGN	MIS/SUPERVISORS	QALUBAYIA	02/23/92	4	5	20	

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MS090	SYSTEMS DESIGN	MIS/SUPERVISORS	GIZA	32/23/92	5	5	30
			CAIRO	32/23/92	7	5	35
			SUEZ	32/29/92	4	5	20
			ALEXANDRIA	02/25/92	4	5	20
			PORT SAID	02/29/92	4	5	20
Subtotals :					29	30	145
MS907	MIS OVERSEAS	MIS/MANAGERS	ALEXANDRIA	12/05/91	3	14	42
			CAIRO	12/05/91	2	14	28
			GIZA	12/05/91	2	14	28
			PORT SAID	12/05/91	3	14	42
			QALUBAYIA	12/05/91	2	14	28
			SUEZ	12/05/91	2	14	28
Subtotals :					14	84	196
08004	DMED - INTRO TO COMPUTERS: BOS	DMED/PLANNERS	QALUBAYIA	05/25/91	7	4	28
			ALEXANDRIA	05/26/91	5	6	30
			CAIRO	06/01/91	3	4	12
			PORT SAID	06/01/91	6	4	24
			GIZA	05/25/91	5	4	20
			SUEZ	06/01/91	4	4	16
Subtotals :					30	28	130
08018	DMED - INTRO. TO LOTUS 123	DMED/PLANNERS	SUEZ	08/05/90	3	5	15
			QALUBAYIA	10/15/88	8	8	64
			SUEZ	05/22/89	4	10	40
			CAIRO	02/25/90	2	5	10
			SUEZ	02/25/90	3	5	15
			ALEXANDRIA	09/12/89	10	10	100
			ALEXANDRIA	08/05/90	4	5	20
			QALUBAYIA	08/05/90	2	5	10
			CAIRO	10/15/88	6	8	48
			PORT SAID	02/25/90	9	5	45
			GIZA	08/05/90	3	10	30
			GIZA	06/04/89	10	10	100
Subtotals :					64	86	497
08019	DMED - ADV. BOS: DBASE III *	DMED/PLANNERS	ALEXANDRIA	07/20/91	5	5	25
			CAIRO	07/20/91	3	5	15
			ALEXANDRIA	09/16/91	4	7	28
			GIZA	37/20/91	6	5	30
			QALUBAYIA	07/20/91	5	5	25
			PORT SAID	07/14/91	5	5	25
			SUEZ	07/14/91	5	5	25
Subtotals :					35	37	193
08022	DMED - ADV. DBASE III PLUS	DMED/PLANNERS	QALUBAYIA	08/18/91	3	5	15
			CAIRO	08/18/91	3	5	15
			GIZA	08/18/91	2	5	10
			SUEZ	08/18/91	4	5	20
			PORT SAID	08/18/91	3	5	15

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00022	ONED - ADV. DBASE III PLUS	ONED/PLANNERS	ALEXANDRIA	08/18/91	1	5	5
			Subtotals :		16	30	30
00032	FINANCIAL FORECASTING	ONED/PLANNERS	GIZA	02/23/89	4	5	20
			CAIRO	02/23/89	5	5	25
			SUEZ	06/04/89	7	5	35
			ALEXANDRIA	06/04/89	9	5	40
			QALUBAYIA	02/23/89	4	5	20
			Subtotals :		29	25	140
00037	ONED MEETING	ONED/PLANNERS	PORT SAID	05/06/92	2	2	4
			QALUBAYIA	05/06/92	2	2	4
			SUEZ	05/06/92	3	2	6
			GIZA	05/06/92	2	2	4
			ALEXANDRIA	05/06/92	3	2	6
			CAIRO	05/06/92	1	2	2
			Subtotals :		13	12	26
00038	BUDGET DEVELOPMENT SEMINAR	ONED/PLANNERS	CAIRO	05/22/90	2	3	6
			ALEXANDRIA	05/19/90	3	3	9
			ALEXANDRIA	05/22/90	2	3	6
			GIZA	05/19/90	7	3	21
			QALUBAYIA	05/19/90	7	3	21
			CAIRO	05/19/90	7	3	21
			PORT SAID	05/22/90	9	3	27
			SUEZ	05/22/90	8	3	24
			Subtotals :		45	24	125
00050	ONED - CONCEPT IN ENGLISH	ONED/PLANNERS	ALEXANDRIA	05/16/90	23	19	437
00053	ONED - ADVANCED LOTUS 123	ONED/PLANNERS	SUEZ	12/16/90	4	6	24
			CAIRO	05/13/90	3	5	15
			SUEZ	05/13/90	2	5	10
			GIZA	05/13/90	2	5	10
			PORT SAID	05/13/90	3	5	15
			GIZA	12/16/90	3	6	18
			QALUBAYIA	12/16/90	3	6	18
			QALUBAYIA	05/13/90	3	5	15
			Subtotals :		23	43	125
00057	HARVARD GRAPHICS & ADV. PRES.	ONED/PLANNERS	ALEXANDRIA	01/05/91	8	10	80
			CAIRO	09/09/90	1	5	5
			QALUBAYIA	09/09/90	5	5	25
			GIZA	09/09/90	4	5	20
			PORT SAID	09/09/90	2	5	10
			Subtotals :		20	30	140
00904	ONED-PRE DEPARTURE ORIENTATION	ONED/PLANNERS	SUEZ	11/03/91	4	1	4

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days
00904	DRED-PRE DEPARTURE ORIENTATION	DRED/PLANNERS	GIZA	11/03/91	4	1	4
			ALEXANDRIA	11/03/91	1	1	1
			CAIRO	11/03/91	4	1	4
			QALUBAYIA	11/03/91	1	1	1
			PORT SAID	11/03/91	1	1	1
Subtotals :					21	5	21
00910	DRED OVERSEAS	DRED/PLANNERS	QALUBAYIA	11/08/91	3	15	45
			PORT SAID	11/08/91	3	15	45
			GIZA	11/08/91	4	15	60
			CAIRO	11/08/91	4	15	60
			SUEZ	11/08/91	4	15	60
			ALEXANDRIA	11/08/91	3	15	45
Subtotals :					21	90	315
00914	TRANSFER OF OVERSEAS - DRED	DRED/PLANNERS	SUEZ	04/28/92	6	2	12
			QALUBAYIA	04/28/92	5	2	10
			PORT SAID	04/28/92	6	2	12
			GIZA	04/28/92	6	2	12
			ALEXANDRIA	04/28/92	3	2	6
			CAIRO	04/28/92	7	2	14
Subtotals :					33	12	66
00950	INTR. TO COMPUTERS-DOS / MS	DRED/PLANNERS	SUEZ	11/26/89	3	4	12
			PORT SAID	11/26/89	7	4	28
Subtotals :					10	8	40
00951	LD II TRAINING ROSTER SYSTEM	SUPERVISORS	SUEZ	01/06/92	2	2	4
			ALEXANDRIA	06/03/91	4	4	16
		SUPERVISORS	SUEZ	02/11/91	2	2	4
			ALEXANDRIA	03/11/92	2	2	4
Subtotals :					10	10	28
01101	DEMONSTRATION DRED / OD	DRED/PLANNERS	QALUBAYIA	11/26/89	6	5	30
			CAIRO	11/26/89	5	3	15
			SUEZ	12/11/89	9	3	27
			ALEXANDRIA	12/05/89	7	3	21
			GIZA	11/26/89	5	3	15
Subtotals :					32	17	108
03000	GARAGE MANAGEMENT	MANAGERS	PORT SAID	09/30/89	2	5	10
			CAIRO	09/30/89	1	6	6
Subtotals :					3	11	16
03602	DJT/VEHICLE OPERATION & MAINT.	MECHANICS	SUEZ	08/25/90	50	9	450

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days
03603	ROAD MAINTENANCE	ENGINEERS	GIZA	09/10/91	30	30	900
			ALEXANDRIA	09/10/91	30	30	900
			PORT SAID	09/10/91	29	30	840
			BALUBATIA	02/02/91	23	32	736
			Subtotals :				112
03604	LD II URBAN TRAINING ARABWORD		BALUBATIA	09/08/91	2	3	6
			SUEZ	09/05/91	2	3	6
			PORT SAID	09/05/91	2	3	6
			ALEXANDRIA	09/08/91	3	3	9
			Subtotals :				9
03605	OJT ROADS MAINT. / ORIENTATION	HIGH LEVEL OFFI	CAIRO	03/04/92	9	1	9
03604	O&M INTRODUCTION TO DOS	ENGINEERS	ALEXANDRIA	10/14/91	12	4	48
			CAIRO	10/07/91	7	4	28
			Subtotals :				19
03605	KARDEX WAREHOUSE SYSTEM	MANAGERS	CAIRO	11/20/89	12	10	120
			SUEZ	11/20/89	2	10	20
			CAIRO	06/29/90	7	6	42
			GIZA	05/30/92	7	10	70
			ALEXANDRIA	06/29/91	3	6	18
			CAIRO	08/28/88	14	5	70
			PORT SAID	05/30/92	7	10	70
			PORT SAID	06/29/91	2	6	12
			PORT SAID	11/20/89	2	10	20
			ALEXANDRIA	05/20/89	15	20	300
			Subtotals :				71
04006	PREVENTIVE MAINT./ TRUCKS IN	MECHANICS	GIZA	09/09/89	12	3	36
			CAIRO	05/28/91	13	3	39
			ALEXANDRIA	06/17/91	12	3	36
			BALUBATIA	06/25/91	12	3	36
			ALEXANDRIA	06/11/91	12	3	36
			ALEXANDRIA	02/11/91	15	4	60
			ALEXANDRIA	08/13/91	12	3	36
			CAIRO	02/18/91	10	4	40
			ALEXANDRIA	09/16/89	26	9	234
			CAIRO	10/22/91	12	3	36
			PORT SAID	06/08/91	12	3	36
			PORT SAID	09/19/89	8	3	24
			ALEXANDRIA	03/05/90	14	4	56
			BALUBATIA	09/09/89	7	3	21
			CAIRO	08/12/89	37	3	111
SUEZ	09/16/89	10	3	30			
Subtotals :				224	57	963	

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days
DM007	PREVENTIVE MAINT./ TRUCKS F350	MECHANICS	CAIRO	08/13/91	12	3	36
			CAIRO	09/02/89	12	3	36
			GIZA	07/29/91	12	3	36
			ALEXANDRIA	09/26/89	19	4	171
			PORT SAID	10/03/89	14	3	42
			CAIRO	06/29/91	12	3	36
			PORT SAID	02/16/92	2	3	6
			SUEZ	03/09/92	11	3	33
			SUEZ	02/16/92	2	3	6
			ALEXANDRIA	02/16/92	2	3	6
			QALUBAYIA	09/16/89	10	3	30
			GIZA	09/16/89	14	3	42
			QALUBAYIA	02/16/92	2	3	6
			CAIRO	10/15/91	12	3	36
			SUEZ	09/26/89	10	3	30
			GIZA	02/16/91	14	4	56
Subtotals :					160	55	608
DM008	MANAGEMENT - GARAGES	MANAGERS	CAIRO	12/10/88	16	18	288
			ALEXANDRIA	08/05/89	22	18	396
			ALEXANDRIA	01/28/89	20	18	360
			PORT SAID	06/29/91	4	18	72
			ALEXANDRIA	06/29/91	5	18	90
			GIZA	06/01/91	2	18	36
			QALUBAYIA	06/01/91	4	18	72
			CAIRO	05/27/89	16	18	288
			GIZA	05/27/89	2	18	36
			QALUBAYIA	05/27/89	3	18	54
			CAIRO	06/01/92	15	18	270
			SUEZ	06/29/91	6	18	108
Subtotals :					115	216	2070
DM009	PREVENTIVE MAINT./ TRUCKS F900	MECHANICS	CAIRO	07/30/91	12	3	36
			CAIRO	08/22/89	39	3	117
			ALEXANDRIA	07/27/91	12	3	36
			GIZA	05/07/91	12	3	36
			CAIRO	09/24/91	12	3	36
			ALEXANDRIA	07/15/91	10	3	30
			GIZA	09/16/89	14	3	42
			GIZA	09/07/91	12	3	36
			QALUBAYIA	09/16/89	10	3	30
			CAIRO	11/10/90	14	4	56
			CAIRO	05/04/91	7	3	21
			SUEZ	03/09/91	12	4	48
			QALUBAYIA	02/24/91	13	3	39
			Subtotals :				
DM015	ROADS MAINTENANCE	ENGINEERS	PORT SAID	02/17/92	3	3	9
			ALEXANDRIA	02/17/92	3	3	9
			QALUBAYIA	08/26/90	3	5	15
			CAIRO	02/17/92	15	3	45
			SUEZ	08/26/90	3	5	15
			CAIRO	08/26/90	11	5	55
			SUEZ	02/17/92	3	3	9
GIZA	02/17/92	6	3	18			

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days
DM015	ROADS MAINTENANCE	ENGINEERS	QALUBAYIA	02/17/92	2	3	6
			Subtotals :		49	33	181
DM027	PREVENTIVE MAINT./ TRUX-MORE	MECHANICS	ALEXANDRIA	08/26/90	16	4	64
			ALEXANDRIA	22/28/90	14	4	56
			CAIRO	02/09/91	12	4	48
			ALEXANDRIA	09/26/89	25	9	225
		ENGINEERS	ALEXANDRIA	03/09/91	12	4	48
		MECHANICS	QALUBAYIA	09/23/89	10	3	30
		ENGINEERS	ALEXANDRIA	03/13/91	12	4	48
		MECHANICS	GIZA	09/23/89	14	3	42
			ALEXANDRIA	09/14/91	10	3	30
			CAIRO	05/18/91	12	3	36
			CAIRO	08/12/89	35	3	105
			PORT SAID	09/26/89	9	3	27
			SUEZ	09/28/91	13	3	39
			SUEZ	09/30/89	10	3	30
			Subtotals :		204	53	828
DM030	PROCUREMENT MANAGEMENT	ACCOUNTANTS	ALEXANDRIA	06/24/90	23	10	230
			CAIRO	03/17/90	21	11	231
		SUPERVISORS	ALEXANDRIA	08/25/91	1	11	11
		ACCOUNTANTS	SUEZ	08/25/91	1	11	11
		SUPERVISORS	CAIRO	08/25/91	11	11	121
		ACCOUNTANTS	SUEZ	09/30/90	17	11	187
		SUPERVISORS	GIZA	08/25/91	4	11	44
			QALUBAYIA	08/25/91	3	11	33
		ACCOUNTANTS	PORT SAID	08/19/90	17	11	187
			QALUBAYIA	09/30/90	5	11	55
			GIZA	05/13/90	8	10	80
		SUPERVISORS	PORT SAID	08/25/91	1	11	11
		ACCOUNTANTS	CAIRO	05/13/90	10	10	100
			Subtotals :		122	140	1201
DM031	PREVENTIVE MAINT./ LOADERS	MECHANICS	ALEXANDRIA	07/08/91	12	3	36
			GIZA	09/09/89	12	3	36
			GIZA	03/02/91	10	11	110
			QALUBAYIA	09/09/89	9	3	27
			ALEXANDRIA	09/16/89	26	9	234
			CAIRO	08/26/91	10	3	30
			CAIRO	08/12/89	43	3	129
			ALEXANDRIA	02/24/90	14	4	56
			CAIRO	08/19/90	13	4	52
			SUEZ	05/07/91	12	3	36
			SUEZ	09/23/89	10	3	30
			ALEXANDRIA	08/18/90	17	4	68
			PORT SAID	09/16/89	9	3	27
			Subtotals :		197	56	871
DM036	PREVENTIVE MAINT./ GRADERS	MECHANICS	PORT SAID	09/30/89	13	3	39
			CAIRO	07/14/91	14	3	42
			ALEXANDRIA	09/26/89	24	9	216
			SUEZ	10/03/89	10	3	30

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days
Subtotals :					61	18	327
00048	PROCUREMENT WORKSHOP / ENG.	ENGINEERS	GIZA	05/27/90	4	5	20
			CAIRO	05/27/90	7	5	35
Subtotals :					11	10	55
00049	PROCUREMENT WORKSHOP / ACCNT.	ACCOUNTANTS	CAIRO	06.02/90	15	5	75
			GIZA	06/02/90	3	5	15
Subtotals :					18	10	90
00052	PREVENTIVE MAINT./ELGIN SWEEP.	MECHANICS	GIZA	08/17/91	12	3	36
			ALEXANDRIA	03/10/90	18	5	90
			PORT SAID	03/09/92	12	3	36
			SUEZ	08/25/90	12	6	72
			CAIRO	08/26/90	14	5	70
			CAIRO	09/07/91	12	3	36
			ALEXANDRIA	08/19/90	16	5	80
			PORT SAID	11/24/90	12	5	60
Subtotals :					138	35	480
00056	PREVENTIVE MAINT./ CALABRICE	MECHANICS	PORT SAID	01/05/91	12	4	48
			PORT SAID	01/14/91	12	4	48
			PORT SAID	01/09/91	12	4	48
			ALEXANDRIA	02/25/91	15	4	60
Subtotals :					51	16	204
00058	VEE. EQUIP. OPER. (NEW FORMS)	ENGINEERS	CAIRO	01/12/91	9	6	54
			GIZA	01/19/91	4	6	24
			PORT SAID	01/26/91	7	6	42
			ALEXANDRIA	01/12/91	9	6	54
			SUEZ	01/26/91	7	6	42
			BALUBAYIA	01/19/91	5	6	30
			Subtotals :				
00060	HYDRAULIC SYSTEMS (ENG.)	ENGINEERS	SUEZ	05/16/92	2	10	20
			BALUBAYIA	02/15/92	2	9	18
			ALEXANDRIA	05/16/92	6	10	60
			CAIRO	02/15/92	6	9	54
			GIZA	02/15/92	2	9	18
			PORT SAID	05/16/92	2	10	20
			Subtotals :				
00061	PREVENTIVE MAINT. / ROLLERS	MECHANICS	ALEXANDRIA	12/10/91	12	3	36
			BALUBAYIA	12/14/91	12	3	36
			GIZA	08/17/91	10	3	30
			CAIRO	12/14/91	12	3	36
			PORT SAID	12/21/91	12	3	36

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trasnee Days	
0M081	PREVENTIVE MAINT. / ROLLERS	MECHANICS	PORT SAID	09/15/91	12	3	36	
			Subtotals :		70	18	210	
0M084	CUMMINS ENGINE OVERALL & TR.	ENGINEERS	ALEXANDRIA	11/10/91	2	10	20	
			CAIRO	11/10/91	5	10	50	
			GIZA	11/10/91	3	10	30	
Subtotals :		10	30	100				
0M085	TRANSFER OF EXPERIENCE-GARAGE	ENGINEERS	SUEZ	04/14/92	3	3	9	
			SUEZ	04/11/92	3	3	9	
			Subtotals :		6	6	18	
0M088	INDUSTRIAL SAFETY	TECHNICIANS	QALUBAYIA	03/04/92	2	1	2	
			CAIRO	03/01/92	7	1	7	
			TECHNICIANS	PORT SAID	01/25/92	22	5	110
			ENGINEERS	ALEXANDRIA	11/24/91	15	5	75
			MECHANICS	ALEXANDRIA	04/12/92	24	2	48
			TECHNICIANS	QALUBAYIA	12/08/91	2	5	10
			CAIRO	12/08/91	11	5	55	
SUEZ	01/19/92	14	5	70				
Subtotals :		97	29	377				
0M091	HYDRAULIC SYSTEMS (TECH.)	TECHNICIANS	PORT SAID	05/25/92	2	10	20	
			SUEZ	05/25/92	2	10	20	
			ALEXANDRIA	05/25/92	6	10	60	
			GIZA	02/03/92	4	9	36	
			CAIRO	02/03/92	1	9	9	
Subtotals :		15	48	145				
0M093	PREVENTIVE MAINT. / SWEEPERS	MECHANICS	CAIRO	03/09/92	12	3	36	
0M094	FIELD VISIT/EXCHANGE OF EXPER	ENGINEERS	SUEZ	03/03/92	4	1	4	
			QALUBAYIA	03/03/92	5	1	5	
			GIZA	03/03/92	8	1	8	
Subtotals :		17	3	17				
0M099	MAINTENANCE & REPAIR OF NASR	ENGINEERS	CAIRO	05/09/92	2	12	24	
			GIZA	05/09/92	4	12	48	
			QALUBAYIA	05/09/92	1	12	12	
			SUEZ	05/09/92	2	12	24	
Subtotals :		9	48	108				
0M102	METHODS-ROAD EQUIP. OPERATION	ENGINEERS	PORT SAID	05/17/92	2	5	10	
			GIZA	05/17/92	2	5	10	
			CAIRO	05/17/92	7	5	35	
			SUEZ	05/17/92	2	5	10	

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days
DM102	METHODS-ROAD EQUIP. OPERATION	ENGINEERS	ALEXANDRIA	05/17/92	2	5	10
			QALUBAYIA	05/17/92	2	5	10
			Subtotals :		17	20	85
DM104	OPER.&MAINT. - AIR COMPRESSORS	ENGINEERS	ALEXANDRIA	05/23/92	15	6	90
DM901	GARAGE MANAGEMENT OVERSEAS	ENGINEERS	GIZA	09/14/91	2	22	44
			ALEXANDRIA	09/14/91	2	22	44
			CAIRO	09/14/91	3	22	66
			PORT SAID	09/14/91	2	22	44
			QALUBAYIA	09/14/91	2	22	44
			SUEZ	09/14/91	2	22	44
Subtotals :		13	132	286			
DM902	GARAGE OPERATION OVERSEAS	ENGINEERS	CAIRO	10/12/91	3	22	66
			ALEXANDRIA	10/12/91	2	22	44
			QALUBAYIA	10/12/91	2	22	44
			GIZA	10/12/91	2	22	44
			PORT SAID	10/12/91	2	22	44
			SUEZ	10/12/91	2	22	44
Subtotals :		13	132	286			
SW026	SOLID WASTE SEMINAR	GOVERNORS&SECRE	CAIRO	03/06/91	6	2	12
			PORT SAID	03/06/91	4	2	8
			SUEZ	03/06/91	4	2	8
			GIZA	03/06/91	3	2	6
			QALUBAYIA	03/06/91	4	2	8
			ALEXANDRIA	03/06/91	12	2	24
			Subtotals :		33	12	66
SW028	SOLID WASTE OPERATION MGMT.	MANAGERS	SUEZ	12/09/89	14	6	84
			PORT SAID	12/09/89	18	6	108
			CAIRO	08/19/89	13	8	104
			GIZA	12/03/89	25	6	150
			GIZA	08/19/89	13	9	117
			CAIRO	12/23/89	20	6	120
			ALEXANDRIA	12/16/89	32	6	192
			ALEXANDRIA	09/23/89	30	9	240
			Subtotals :		165	55	1115
SW029	FIELD COURSE SUPERVISION	SUPERVISORS	CAIRO	12/02/89	24	6	144
			GIZA	11/26/89	17	5	85
			CAIRO	08/07/89	12	6	72
			ALEXANDRIA	09/16/89	27	5	135
			CAIRO	11/25/89	24	5	120
			GIZA	08/07/89	4	4	16
Subtotals :		108	31	572			

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days	
TT004	TRAINING - INTRODUCTION TO BOS		QALUBAYIA	01/26/92	2	3	6	
			GIZA	01/26/92	3	3	9	
			PORT SAID	01/21/92	2	3	6	
			ALEXANDRIA	01/21/92	3	3	9	
			SUEZ	01/21/92	2	3	6	
			CAIRO	01/26/92	2	3	6	
Subtotals :					14	18	42	
TT061	TRAINING COORDINATORS MEETING	HIGH LEVEL OFFI	SUEZ	06/23/92	3	2	6	
			QALUBAYIA	06/23/92	3	2	6	
			SUEZ	03/01/92	2	1	2	
			ALEXANDRIA	06/23/92	3	2	6	
			ALEXANDRIA	03/01/92	3	1	3	
			CAIRO	03/01/92	3	1	3	
			GIZA	06/23/92	3	2	6	
			QALUBAYIA	03/01/92	2	1	2	
			CAIRO	06/23/92	5	2	10	
			GIZA	03/01/92	3	1	3	
			PORT SAID	06/23/92	3	2	6	
			PORT SAID	03/01/92	3	1	3	
			Subtotals :				36	18
TT098	TRAINING PLAN TC/TA MEETING	HIGH LEVEL OFFI	CAIRO	03/16/92	2	1	2	
			ALEXANDRIA	03/15/92	2	1	2	
			QALUBAYIA	03/17/92	1	1	1	
			GIZA	03/18/92	2	1	2	
Subtotals :				7	4	7		
TT600	TRAINING OF PEER TRAINERS	MIS/STAFF	PORT SAID	06/15/91	5	-	30	
			ALEXANDRIA	06/15/91	4	6	24	
			SUEZ	05/25/91	4	6	24	
			QALUBAYIA	06/15/91	2	6	12	
		MIS/STAFF	CAIRO	06/15/91	4	6	24	
			ENGINEERS	QALUBAYIA	02/02/91	9	3	27
			CAIRO	02/25/92	15	3	45	
			PORT SAID	11/16/91	8	3	24	
		ENGINEERS	QALUBAYIA	05/25/91	2	6	12	
			GIZA	05/25/91	4	6	24	
			GIZA	10/21/91	8	3	24	
			ALEXANDRIA	12/09/91	9	3	27	
Subtotals :				74	57	397		
TT601	TRAINING INSTITUTIONALIZATION	HIGH LEVEL OFFI	ALEXANDRIA	10/16/91	1	2	2	
			CAIRO	10/16/91	3	2	6	
			PORT SAID	10/16/91	2	2	4	
			QALUBAYIA	10/16/91	2	2	4	
			GIZA	10/16/91	2	2	4	
			SUEZ	10/16/91	1	2	2	
Subtotals :				11	12	22		
TT905	TR. - PRE DEPART. ORIENTATION	HIGH LEVEL OFFI	ALEXANDRIA	11/04/91	1	1	1	

LOCAL DEVELOPMENT II URBAN PROJECT
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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days
TT905	TR. - PRE DEPART. ORIENTATION	HIGH LEVEL OFFI	PORT SAID	11/04/91	2	1	2
			SUEZ	11/04/91	1	1	1
			GIZA	11/04/91	1	1	2
			JALUBAYIA	11/04/91	1	1	1
			CAIRO	11/04/91	2	1	2
Subtotals :					11	6	11
TT908	TRAINING OVERSEAS	HIGH LEVEL OFFI	QALUBAYIA	11/08/91	2	15	30
			SUEZ	11/08/91	2	15	30
			CAIRO	11/08/91	3	15	45
			GIZA	11/08/91	1	15	15
			PORT SAID	11/08/91	2	15	30
			ALEXANDRIA	11/08/91	1	15	15
Subtotals :					11	70	165
TT911	TRAINING OVERSEAS RESULTS	HIGH LEVEL OFFI	GIZA	12/09/91	2	2	4
			PORT SAID	12/09/91	2	2	4
			SUEZ	12/09/91	3	2	6
			QALUBAYIA	12/09/91	2	2	4
			ALEXANDRIA	12/09/91	3	2	6
			CAIRO	12/09/91	4	2	8
Subtotals :					16	12	32
UB200	FLEXIBLE PAVEMENT (DESIGN-REH)	ENGINEERS	GIZA	12/24/89	2	5	10
			CAIRO	12/24/89	15	5	75
Subtotals :					17	10	85
UL097	LNU SYMPOSIUM COMPUTER/PRACTIC	LN STAFF	GIZA	03/01/92	1	3	3
			PORT SAID	03/01/92	2	3	6
			SUEZ	03/01/92	1	3	3
Subtotals :					4	9	12
UB060	ROAD MAINT. TECH. SEMINAR	ENGINEERS	CAIRO	07/31/91	4	1	4
			GIZA	02/24/91	2	1	2
			PORT SAID	09/10/91	3	1	3
			CAIRO	09/10/91	3	1	3
			PORT SAID	07/31/91	2	1	2
			SUEZ	02/24/91	2	1	2
			QALUBAYIA	07/31/91	2	1	2
			CAIRO	02/24/91	3	1	3
			ALEXANDRIA	09/10/91	2	1	2
			SUEZ	09/10/91	2	1	2
			ALEXANDRIA	07/31/91	2	1	2
			SUEZ	07/31/91	2	1	2
			ALEXANDRIA	02/24/91	3	1	3
			GIZA	09/10/91	2	1	2
			GIZA	07/31/91	2	1	2
QALUBAYIA	09/10/91	2	1	2			

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days	
Subtotals :					38	16	38	
U0600	MECHANICAL QUALITY CONTROL	MANAGERS	GIZA	01/13/90	1	25	25	
			PORT SAID	01/13/90	1	25	25	
		SUPERVISORS	CAIRO	01/05/91	2	36	72	
			CAIRO	01/13/90	4	25	100	
		MANAGERS	QALUBATIA	01/05/91	2	36	72	
			SUEZ	01/05/91	1	36	36	
		SUPERVISORS	SUEZ	01/13/90	1	25	25	
			ALEXANDRIA	01/05/91	2	36	72	
		MANAGERS	ALEXANDRIA	01/13/90	2	25	50	
			Subtotals :					16
U0601	MAINTENANCE OF VEH. ELECTRICAL	MECHANICS	PORT SAID	03/03/90	1	18	18	
			QALUBATIA	10/13/90	2	18	36	
		TECHNICIANS	CAIRO	02/23/91	3	18	54	
			MECHANICS	CAIRO	10/13/90	4	18	72
		MECHANICS	QALUBATIA	03/03/90	1	18	18	
			SUEZ	02/23/91	1	18	18	
		TECHNICIANS	MECHANICS	PORT SAID	10/13/90	2	18	36
			GIZA	10/13/90	1	18	18	
		MECHANICS	QALUBATIA	12/23/89	1	18	18	
			CAIRO	12/23/89	6	18	108	
		TECHNICIANS	MECHANICS	GIZA	02/23/91	2	18	36
				SUEZ	10/13/90	1	18	18
		MECHANICS	GIZA	12/23/89	2	18	36	
			CAIRO	03/03/90	6	18	108	
		MECHANICS	QALUBATIA	02/23/91	1	18	18	
			SUEZ	12/23/89	1	18	18	
		MECHANICS	GIZA	03/03/90	2	18	36	
			ALEXANDRIA	10/23/90	7	31	217	
		MECHANICS	ALEXANDRIA	07/14/90	7	30	210	
			Subtotals :					33
U0602	MAINTENANCE - DIESEL ENGINES	VOCATIONAL	GIZA	02/24/90	2	24	48	
			CAIRO	02/24/90	5	24	144	
			GIZA	10/28/89	2	24	48	
			GIZA	10/13/90	1	24	24	
			CAIRO	10/13/90	4	24	96	
			PORT SAID	10/13/90	3	24	72	
			PORT SAID	02/24/90	1	24	24	
			MECHANICS	GIZA	02/16/91	1	24	24
				CAIRO	02/16/91	5	24	120
			VOCATIONAL	QALUBATIA	10/28/89	1	24	24
				QALUBATIA	02/24/90	1	24	24
			VOCATIONAL	CAIRO	10/28/89	5	24	144
				SUEZ	10/28/89	1	24	24
			MECHANICS	ALEXANDRIA	10/27/90	8	31	248
				QALUBATIA	02/16/91	3	24	72
			VOCATIONAL	SUEZ	02/16/91	1	24	24
				SUEZ	10/13/90	2	24	48
VOCATIONAL	ALEXANDRIA	07/14/90	7	30	210			

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days
Subtotals :					57	445	1439
U0603	VEHICLES W/S FOREMEN	MECHANICS	ALEXANDRIA	02/09/91	8	36	288
		MANAGERS	QALUBAYIA	02/03/90	1	26	26
		MECHANICS	PORT SAID	11/03/90	1	26	26
			SUEZ	02/02/91	1	26	26
		MANAGERS	PORT SAID	02/03/90	2	36	72
		MECHANICS	SUEZ	11/03/90	1	36	36
			CAIRO	02/02/91	4	36	144
		MANAGERS	ALEXAMBRIA	02/03/90	1	36	36
		MECHANICS	QALUBAYIA	11/03/90	1	36	36
		MANAGERS	SUEZ	02/03/90	1	36	36
		MECHANICS	CAIRO	11/03/90	4	36	144
		MANAGERS	ALEXAMBRIA	11/04/89	2	36	72
		MECHANICS	GIZA	02/02/91	1	36	36
		MANAGERS	SUEZ	11/04/89	2	36	72
			CAIRO	11/04/89	4	36	144
			GIZA	11/04/89	4	36	144
			PORT SAID	11/04/89	2	36	72
		MECHANICS	GIZA	11/03/90	1	36	36
		MANAGERS	CAIRO	02/03/90	5	36	180
Subtotals :					46	684	1856
U0604	INDUSTRIAL ELECTRICIAN	TECHNICIANS	ALEXANDRIA	09/22/90	8	30	240
U0605	TURNING	VOCATIONAL	SUEZ	09/02/89	7	48	336
U0606	FITTING	VOCATIONAL	SUEZ	09/02/89	9	48	434
U0607	MACHINE ELECTRICITY	VOCATIONAL	SUEZ	09/02/89	8	48	384
U0608	MAINTENANCE OF PETROL ENGINES	TECHNICIANS	SUEZ	12/15/90	1	23	23
			GIZA	12/15/90	1	23	23
		MECHANICS	SUEZ	05/05/90	1	24	24
			QALUBAYIA	05/05/90	1	24	24
		TECHNICIANS	QALUBAYIA	12/15/90	2	24	48
		MECHANICS	QALUBAYIA	01/13/90	1	24	24
			GIZA	01/13/90	2	24	48
		TECHNICIANS	CAIRO	12/15/90	4	23	92
			PORT SAID	12/15/90	2	23	46
		MECHANICS	ALEXANDRIA	08/18/90	7	30	210
			PORT SAID	01/13/90	1	24	24
			ALEXANDRIA	12/01/90	9	30	270
			CAIRO	05/05/90	6	24	144
			CAIRO	01/13/90	6	24	144
Subtotals :					43	344	1114
U0609	MAINTENANCE OF TRANSMISSION	MECHANICS	ALEXANDRIA	01/05/91	2	36	72
			CAIRO	01/13/90	2	25	50
			ALEXANDRIA	05/05/90	1	24	24
			GIZA	01/05/91	1	36	36

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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days
U0609	MAINTENANCE OF TRANSMISSION	MECHANICS	CAIRO	01/05/91	4	36	144
			PORT SAID	05/05/90	1	24	24
			GIZA	12/14/91	4	3	12
			CAIRO	12/14/91	4	3	12
			CAIRO	05/05/90	2	24	48
			PORT SAID	01/05/91	1	36	36
			CAIRO	12/07/91	10	6	60
			ALEXANDRIA	01/13/90	1	25	25
			QALUBAYIA	05/05/90	1	24	24
			SUEZ	01/13/90	1	25	25
			QALUBAYIA	12/14/91	4	3	12
			SUEZ	01/05/91	1	36	36
			QALUBAYIA	01/05/91	1	36	36
			Subtotals :				
U0610	TOOL ROOM OPERATOR	TECHNICIANS	QALUBAYIA	05/05/90	1	18	18
			CAIRO	01/20/90	2	18	36
			CAIRO	12/15/90	3	16	48
			PORT SAID	05/05/90	1	18	18
			ALEXANDRIA	05/05/90	1	18	18
			GIZA	12/15/90	1	16	16
			CAIRO	05/05/90	1	18	18
		MECHANICS TECHNICIANS	SUEZ	12/15/90	1	16	16
			ALEXANDRIA	01/05/91	8	18	144
			QALUBAYIA	12/15/90	2	16	32
			ALEXANDRIA	01/20/90	1	18	18
			SUEZ	01/20/90	1	18	18
			GIZA	05/05/90	1	18	18
			GIZA	01/20/90	1	18	18
PORT SAID	12/15/90	2	16	32			
Subtotals :					27	260	468
U0611	ELEC. & OXY. WELDING	VOCATIONAL	ALEXANDRIA	08/18/90	7	30	210
			QALUBAYIA	02/24/90	2	24	48
			ALEXANDRIA	12/01/90	8	30	240
			PORT SAID	02/24/90	1	24	24
			CAIRO	02/24/90	4	24	96
			SUEZ	09/02/89	11	48	528
			CAIRO	12/01/90	4	24	96
		TECHNICIANS VOCATIONAL TECHNICIANS VOCATIONAL TECHNICIANS	PORT SAID	12/01/90	2	24	48
			GIZA	02/24/90	1	24	24
			SUEZ	12/01/90	1	24	24
			GIZA	12/01/90	1	24	24
			SUEZ	02/24/90	1	24	24
			QALUBAYIA	12/01/90	2	24	48
			Subtotals :				
U0612	CAR SHEET METAL WORK	VOCATIONAL MECHANICS	ALEXANDRIA	09/22/90	5	30	180
			SUEZ	11/03/90	1	36	36
			ALEXANDRIA	01/05/91	8	30	240
			GIZA	11/03/90	2	36	72
			CAIRO	11/03/90	4	36	144
			QALUBAYIA	11/03/90	1	36	36
PORT SAID	11/03/90	1	36	36			

LOCAL DEVELOPMENT II URBAN PROJECT
 COURSES COMPLETED FROM 1988 THRU JUNE 1992
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Course Number	Course Title	Audience	Governorate	Begin Date	No. of Train	No. of Days	Trainee Days
Subtotals :					23	340	744
U0613	ELECTRIC WORKSHOP FOREMEN	MECHANICS	ALEXANDRIA	02/09/91	8	36	288
			CAIRO	11/03/90	3	36	108
			PORT SAID	11/03/90	1	36	36
			GIZA	11/03/90	1	36	36
			SUEZ	11/03/90	1	36	36
			QALUBAYIA	11/03/90	1	36	36
Subtotals :					15	216	540
U0614	ROAD LABORATORY TESTS	ENGINEERS	CAIRO	12/23/90	8	11	88
			QALUBAYIA	12/23/90	2	11	22
			SUEZ	08/03/91	2	24	48
			SUEZ	12/23/90	4	11	44
			GIZA	12/23/90	3	11	33
Subtotals :					19	60	235
U0615	PURCHASING & STORES KEEPER		ALEXANDRIA	01/05/91	20	20	400
			PORT SAID	01/05/91	2	24	48
			GIZA	01/05/91	3	24	72
			QALUBAYIA	01/05/91	1	24	24
			SUEZ	01/05/91	1	24	24
Subtotals :					27	116	568
U0616	GEAR CUTTING	MECHANICS	SUEZ	02/09/91	1	24	24
			GIZA	02/09/91	2	24	48
Subtotals :					3	48	72
U1150	TRAINING OF TRAINERS	TECHNICIANS PIC'S	QALUBAYIA	10/07/90	1	10	10
			PORT SAID	05/21/91	3	6	18
			QALUBAYIA	05/21/91	8	6	48
			GIZA	05/21/91	4	6	24
			CAIRO	05/21/91	5	6	30
		TECHNICIANS	SUEZ	05/21/91	5	6	30
			ALEXANDRIA	05/21/91	5	6	30
			SUEZ	10/07/90	2	10	20
			CAIRO	10/07/90	2	10	20
Subtotals :					35	65	330

===== QUARTERLY TOTALS =====

Total No. of Trainees 9516
 Total No. of Trainee Days 56349

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Appendix 15

NO. OF COURSES/TRAINEES - BY GOVERNORATE

NO. OF COURSES/TRAINEEES - BY GOVERNORATE

Governorate	1988			1989			1990			1991			1992 (Till End of June, 92)		
	No. Courses	No. Trainees	No. Trainee Days	No. Courses	No. Trainees	No. Trainee Days	No. Courses	No. Trainees	No. Trainee Days	No. Courses	No. Trainees	No. Trainee Days	No. Courses	No. Trainees	No. Trainee Days
Alexandria	2	18	135	33	605	4534	50	496	5118	72	550	4546	24	247	1121
Cairo	5	54	541	37	639	3470	58	606	4297	76	633	3544	33	313	1069
Giza	2	18	135	38	385	2099	45	208	1229	61	342	2496	30	179	756
Port Said	6	93	675	25	259	1408	44	219	1875	54	337	2437	23	177	706
Qaliubia	3	26	199	30	310	1456	42	134	1124	56	289	2197	25	117	408
Suez	6	85	655	35	351	3115	47	342	2317	59	263	1525	31	221	1168
Total		187	2340		1509	16082		2005	15960		2414	16745		1254	5222

Appendix 16

**BIBLIOGRAPHY OF LD II URBAN
REPORTS AND MANUALS**

**LD II URBAN PROJECT
TECHNICAL REPORTS**

I. Operation and Maintenance (O&M):

1. Road and Street Maintenance, Suez Governorate
(Oct. 87)
2. Alexandria CIP Vehicle Repair
(Oct. 1987)
3. Proposal for Development of Suez, Governorate Roads Directorate
(July 1988)
4. O&M Needs Assessment, Alexandria Governorate
(Sept. 1988)
5. O&M Needs Assessment, Cairo Governorate
(Sept. 1988)
6. O&M Needs Assessment for Shoubra El Kheima City, Qaliubia Governorate
(Sept. 1988)
7. O&M Needs Assessment, Port Said Governorate
(Oct. 1988)
8. O&M Needs Assessment for Suez Governorate
(Oct. 1988)
9. Proposal for a Central Equipment Maintenance Workshop Suez Governorate
(Oct. 1988)
10. Proposal for Upgrading Cairo Governorate Paving Complex Ghamra Cairo
(Dec. 1988)
11. O&M Profile
(March 1989)
12. Roads and Street Maintenance, Port Said Governorate
(June 1989)
13. O&M Needs Assessment
(Aug. 1989)
14. Roads and Street Maintenance, Shoubra El Kheima City, Qaliubia Governorate
(Sept. 1989)
15. Roads and Maintenance Seminar
(Nov.1989)
16. Roads and Street Maintenance, Giza City Governorate
(Feb.1990)

17. Road Maintenance Management System Operations Manual
(June 1990)
18. Issues and Economics of Road Maintenance in Egypt
(June 1990)
19. Report on Training and Reorganization of Suez Governorate Roads Directorate
(June 1990)
20. Roads and Streets Maintenance, Alexandria Governorate
(August 1990)
21. Road Maintenance Course
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22. LD II Urban Project Issues and Economics of Road Maintenance in Egypt
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23. Special Report on O&M Activities, Qaliubia Governorate, Shoubra El Kheima City
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28. Interim Report on O&M in Giza
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30. Interim Report on O&M in Alexandria Governorate
(January 1992)
31. Interim Report on O&M in Port Said Governorate
(January 1992)
32. Interim Report on O&M in Qaliubia Governorate
(January 1992)
33. Interim Report on O&M in Suez Governorate
(January 1992)
34. O&M Economic Analysis of Maintenance Revenue Generation Options
(July 1992)
35. Report on O&M Activities and Management of New Garages and Workshops in Alexandria

II. Basic Service and Delivery System (BSDS)

1. LD II Urban Basic Services Delivery System Handbook
(Feb. 1986)
2. Inspection Report Suez Governorate Hilal and Ahmed Orabi Schools Boiler Building Hommiat Hospital, El Sadr Hospital
(Sept. 1988)
3. Proposal for Establishing a New Vocational Center in Manshiet Naser Cairo
(June 1989)
4. Updated Fact Sheet on Maintenance Program Funding
(Sept. 1989)
5. BSDS User's Handbook
6. BSDS Automation of Needs Assessment Survey Port Said Governorate Technical Assistance Report (Feb. 90)
7. Pilot Project Automation of N.A. Survey User Manual
(Feb. 90)
8. Needs Assessment Report for Education, Health, and Youth Facilities:
 - a. Cairo Governorate
 - Helwan
 - Heliopolis
 - West
 - Abdeen
 - Central
 - Waily
 - East
 - Zeitoun
 - South
 - Misr El Kadima
 - Rod El Farag
 - Shoubra
 - Nasr City
 - El Zawia and Shourabia
 - El Salam
 - El Maadi
 - El Sahel
 - b. Alexandria Governorate
 - East
 - Mid Town
 - West
 - Amreya

Montazah
Gomork

c. Giza Governorate

North
South
West
Central

d. Port Said Governorate

Port Fouad
El Arab
East
El Montazah
El Dawahy

e. Qaliubia Governorate

East
West

f. Suez Governorate

Suez
El Arabeen
Atakah
El Ganaien

9. Cost Analysis Report
10. Needs Assessment Report for Potable Water, Wastewater, Roads and Street Lighting, Giza City (Oct. 90)
11. Report on Sub-Project Rating for Projects Carried Out during FY 1988 (Dec. 90)
12. LD II Urban Project Report on Sub-Project Rating Operation for Projects Carried out between FY 1982 and FY 1988 (Dec. 90)
13. Special Construction Details (Dec. 90)
14. Local Development, II Urban Project Investment Plan FY 91 (Sept. 91)
15. Local Development II, Urban Project Maintenance Plan FY 92 (Sept. 91)
16. BSDS User's Manual
March 1990 - Feb. 1992 (R.1)

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III. Solid Waste Management (SWM)

1. Proposal for Preparing SWM Containers Cairo Governorate (Aug.1988)
2. Proposal for Transfer Station and Sanitary Landfill for Shoubra El Kheima Qaliubia Governorate (Aug.1988)
3. Proposal for a SW Transfer Station at El Boohi Street, Monira, Imbaba Giza Governorate (Aug.1988)
4. A Solid Waste Disposal Plan for The Governorate of Port Said (Feb.1989)
5. Alexandria Governorate Solid Waste Management Strategy Plan (April 1989)
6. Demonstration Area Plan for Old Giza (April 1989)
7. Demonstration Area Plan for Monira East (May 1989)
8. Port Said Governorate Solid Waste Management Strategy (May 1989)
9. Demonstration Area Plan for Shoubra El Kheima (Sept. 1989)
10. A SW Management Master Plan Suez Governorate (Sept. 1989)
11. SW disposal Port Said Governorate Proposal for Interim Actions (Feb. 1990)
12. Strategy Plan Shoubra El Kheima City, Qaliubia Governorate (Dec.89) (Revised May, 1990)
13. SWM Strategy Plan Giza Governorate Giza City (May 1990)
14. SWM Strategy Plan Cairo Governorate (July 1990)
15. SWM Strategy Plan Shoubra El Kheima, Qaliubia Governorate (Dec.89) (Revised May, 1990)
16. SWM Disposal Port Said Governorate Proposal for Interim Actions (Feb.90)
17. SW Disposal Study Alexandria Governorate SWM Disposal in Port Said (Feb.1991)

18. LD II Urban Project SWM Seminar for Urban Governorate Cairo, Alex., Giza, P.Said, Qaliubia, and Suez (March 6-7, 1991)
19. Design Criteria of Transfer Station and Landfill for Port Said
20. National Conference on the Environment of Lake Manzala

IV. Office of Management and Economical Development (OMED)

1. "March Report" Pilot Implementation of the Budget Development System (April 1989)
2. Programming and Budgeting Discussion Paper (June 1989)
3. Technical Paper Review Urban Governorate Budget Development Process (July 1989)
4. Current Budget System User's Manual (Aug. 1989)
5. Information (Copies of Cairo and Qaliubia Budget Instructions) (Dec. 1989)
6. Technical Paper Five Year Forecasting Model User's Guide (Dec. 1989)
7. Technical Paper Revenue Sources in Urban Governorates (Dec. 1989)
8. Technical paper Five Year Forecasts for Cairo and Qaliubia Governorates (Dec. 1989)
9. CCBA Phase I Report on Program Budgeting Project (Jan. 1990)
10. Budgeting and Financial Planning (May 1990)
11. Programming and Budgeting and Management Information Systems Strategy Statements (Jan. 90)
12. Local Resource Management Executive Summary
13. LD II Urban Program Local Resource Management, Pilot Project (Nov. 90)
14. OMED Program Budget System
15. Budget Monitoring System Phase I (June 92)
16. BMS Phase II Executive Summary

17. Six Month Follow-up Return OMED Overseas Training

V. Management Information System (MIS)

1. Project Tracking System Documentation Manual
(March 1988)
2. Project Tracking System User's Manual
(March 1988)
3. Capital Improvement Program User's Manual
(June 1988)
4. Capital Improvement Program Programmer's Reference
(June 1988)
5. Project Tracking System User's Manual
(July 1988)
6. Management Information System Project Tracking System Installation Summary
Giza Governorate (Sept. 1988)
7. Financial Management System Monthly Invoice Reporting
(Nov. 1988)
8. Post Implementation Evaluation. Current Budget Capital Improvement System
(May 1989)
9. Project Tracking System Implementation Status Report
(July 1989)
10. Current Budget System User's Manual
(Aug. 1989)
11. Feasibility Study Budget Monitoring System
(Oct. 90)
12. Proposal for a Special Project A Special Project for Cairo Governorate Creating and Adequate
Computerized Spare Parts Warehouse and Procurement Inventory Control System in CCBA
13. Giza Governorate Management Information System Needs Assessment
(Dec. 1989)
14. Pilot Project Automation of Needs Assessment Survey Port Said Gov. Technical Assitance
Report (Feb. 90)
15. Pilot Project Automation of Needs Assessment Survey Port Said Gov.
User Manual (Feb. 90)
16. Sub-Project Rating System User's Manual and Programmer's Reference
(July 90)

VI. Land Management Unit (LMU)

1. Cairo Governorate Proposed Land Management Unit (July 1988)
2. Report on Ismailia Governorate LMU Operations and Funding (Oct. 1988)
3. Scoping Report of Animal Breeders in Port Said Governorate (Nov.1988)
4. Report to Governor on Steps Necessary to Establish a LM Office for Qaliubia Governorate (Dec.1988)
5. Alternative Options for Establishing a LM Agency in Port Said Governorate (Jan. 1989)
6. Alternative Options for Establishing a Land Management Agency in Suez Governorate (Jan.1989)
7. Draft Decree Proposed Suez Governorate Land Management Project (Jan. 1989)
8. Steps Necessary to Establish a Land Management for Giza Governorate (Feb.1989)
9. Decree Qaliubia Governorate Land Management Project (March 1989)
10. Status Report Milestone (1) Activities Land Management (April 1989)
11. Report on Additional Land Management Capacity for Port Said Governorate (May 1989)
12. Status Report Milestone (2) Activities Land Management (July 1989)
13. Scoping Report Manshiet El Horreya and El Hegazzie Shoubra El Mahata Community Upgrading Projects for Qaliubia Governorate (Aug. 1989)
14. Land Management Training and Computerization Exit Report (Sept. 1989)
15. Land Management Planning Information System Guidelines (May 1990)
16. LD II Urban Project Suez Governorate Proposed Land Management Unit (Oct. 1988)
17. Briefing Material Land Management and LD II Program Conference Seminar Port Said (Oct. 1988)

18. Land Management Project Development Guidelines (May 1990)
19. Land Management Project Development and Local Resource Mobilization Using Land As An Asset (June 1990)
20. Land Management Office Operating Guidelines (Sept. 90)
21. Land Management Background Report on the Helwan and Ismailia Land Development and Community Upgrading Project Experiences (Sept. 1990)
22. Port Said Governorate Land Management Unit Report on the Development of the South Eastern Part of El Arab District First Phase (Oct. 1990)
23. Local Development II Urban Land Management Executive Seminar (Feb. 1991)
24. Orientation of New Directors and General Secretaries in LD II Urban Governorates (March 1991)
25. Progress Report Deliverable on Consolidation of Land Management Unit Powers to Implement Pilot Projects (Sept. 1991)
26. Land Management Egyptian Study Tour Briefing Package (Nov. 10 through Nov. 21, 91)
27. Land Management Unit Information System User Manual
28. Report on the Implementation of the Land Management Unit and the Societies in Helwan and Ismailia
29. Integrating a Geographic Information System with the Land Management Unit, A Feasibility Study (Nov. 1991)
30. Translation, Land Management Project Resource Mobilization Opportunities and Strategies (April 1992)
31. Technical Assessment of Governorate Land Management Unit
32. Draft Final Report for the Land Management and Development Task (LMU)
33. Draft Status of Land Management Unit (As of End August 1992)

VII. Training

1. Report of a Project Impact Evaluation LD II Urban MIS Training (June 90)
2. Report of LD II Urban Training Impact Evaluation of SWM Training Course

3. Report on the LD II Urban Training Framework
4. Report on the LD II Urban Training Impact Evaluation Office Management and Economic Development (OMED)
5. Training Course (May 91)
6. Report on the LD II Urban Training Impact Evaluation LMU July 91
7. Report on the LD II Urban Impact Evaluation O&M Training
8. Consultancy Report Feasibility Study and Recommended Plan for Governorate Training Institutionalization

Training Manuals

BSDS

Construction Management (Plan/Design)	BS-001
Construction Management (Monitor/Evaluation)	BS-002
Budgeting And Finance	BS-003
Quality Control Of Plain And Reinforced Concrete	BS-012
Design And Inspection of Electrical/Mechanical Components	BS-013
Design And Inspection of Foundation for Light Construction	BS-014
Building And Facility Maintenance	BS-035
Computers And Financial Reports	BS-089

Local Administration

Feasibility Study for Project Assessment	LA-011
Leadership Skills for Governorate Executives	LA-016
Leadership Skills for Popular Council Members	LA-017
LD II Urban Seminar	LA-034

Management Information System

MIS Introduction to Computers	MS-004
dBASE III Plus	MS-019
MIS - Executive Managers	MS-024
Harvard Graphics	MS-025

Operation And Maintenance

Kardex Warehouse System	OM-005
Roads Maintenance	OM-015
Preventive Maintenance/Trucks III	OM-006
Preventive Maintenance/Trucks F350	OM-007
Preventive Maintenance/ Trucks F 800/F 900	OM-009
Heavy Equipment Preventive Maintenance - International Truxmore	OM-027
Procurement Management Preventive Maintenance/Loaders	OM-030 OM-031
Preventive Maintenance/Elgin	OM-052
Operation And Maintenance Nasr Loaders	OM-061
Procurement Workshop/Eng.	OM-048
Industrial Safety	OM-088
Preventive Maintenance Rollers	OM-081

OMED

Lotus 1-2-3	OD-018
Budgeting And Financial Planning	OD-038

Solid Waste

Solid Waste Seminar	SW-026
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Solid Waste Operations Management SW-028

Field Course - SW Field Supervisors SW-029

Land Management Unit

Land Management Seminar LM-040