

ISN 92233
FD-48K-097



CONSTRUCTION MANAGEMENT CONSULTING CONTRACT

In Support of Telecommunications IV

USAID Contract Number
263-0177-C-00-2216-00

Quarterly Report No. 5

4th Quarter, 1993

Overseas Bechtel, Incorporated - Job 22083
and its subcontractor Teleconsult, Inc
World Trade Center, 18th Floor
Cairo, Baulac, Egypt



22083-S112-USAID- 146

Overseas Bechtei, Incorporated

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Eng. Reem Gohar
Project Officer
USAID
Office of Contract Services
Cairo Center
106, Kasr El-Aini Street
Garden City, Cairo, Egypt

February 1, 1994

Dear Eng. Gohar,

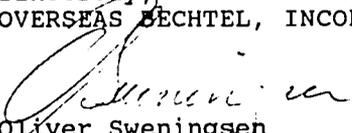
**USAID CMC Contract No. 263-0177-C-00-2216-00
Quarterly Report No. 5**

This Quarterly Report summarizes progress for CMC Services and for Digital Switching Systems (DSS) and Outside Plant (OSP) host country contracts. The project is estimated to be 65% complete. Digital switching activities are essentially complete, and ATTI is mobilizing for outside plant work.

Cost and Commitment Reports, Quarterly Cash Flow Reports, and Change Order Summaries are included with Section III, Progress Statistics.

Additional information is contained in Monthly Progress Reports for October, November and December.

Sincerely,
OVERSEAS BECHTEL, INCORPORATED


Oliver Sweningsen
Project Manager

OS/ar

Distribution:

USAID Contracting Officer - 1 copy
Eng. Fatein Mahmoud, USAID - 1 copy
ARENTO - 10 copies

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I EXECUTIVE SUMMARY

Summary Description of Project

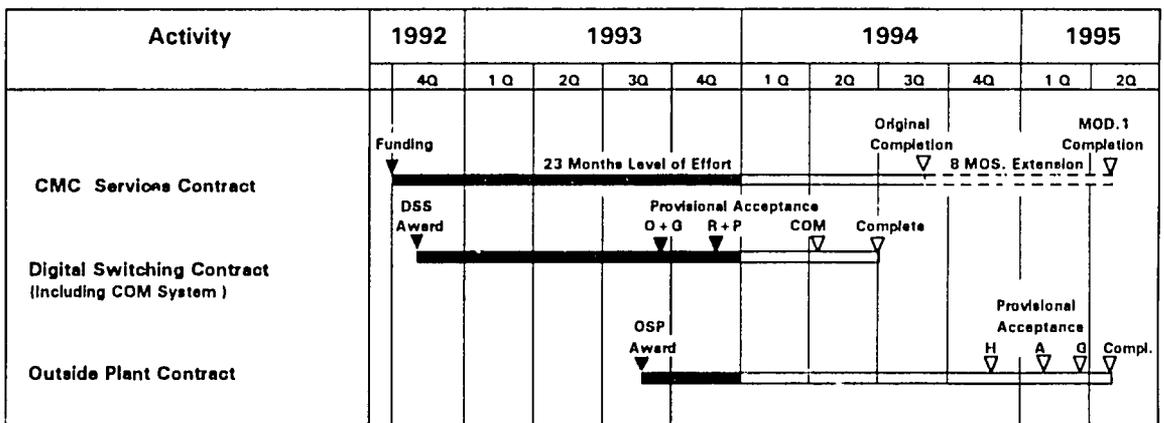
The United States Agency for International Development (USAID) is assisting the Government of Egypt with the expansion of the Cairo telecommunications network under USAID Project No. 263-0177, Telecommunications IV.

Overseas Bechtel, Incorporated (OBI or Bechtel) is contracted with USAID-Egypt to provide construction management and consulting services to the Arab Republic of Egypt National Telecommunications Organization (ARENTO). Bechtel and its subcontractor, Teleconsult, will provide technical advice, support and assistance to ARENTO in the administration of two turnkey contracts that replace and expand central office switching equipment with Digital Switching Systems (DSS), add a Centralized Operations and Management (COM) system and expand the Outside Plant (OSP).

This phase of Telecommunications IV includes:

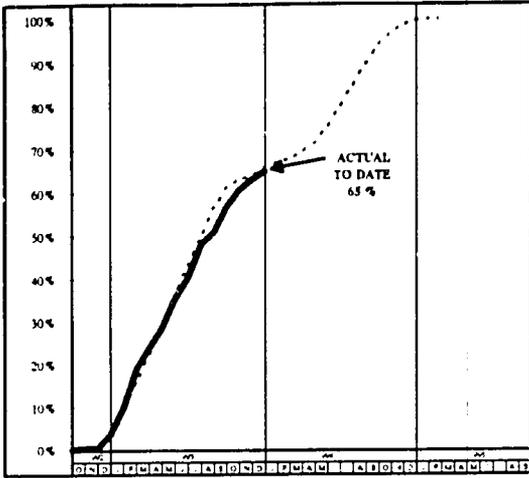
- Four new 20,000 line AT&T #5ESS digital switching systems to be located in existing ARENTO central office facilities at the Ramsis, Opera, Pyramids and Giza exchanges.
- A centralized operations and maintenance system to monitor and control the network switching nodes.
- Outside plant upgrades at the Heliopolis, Giza and Auto exchange areas.

Executive Summary Schedule

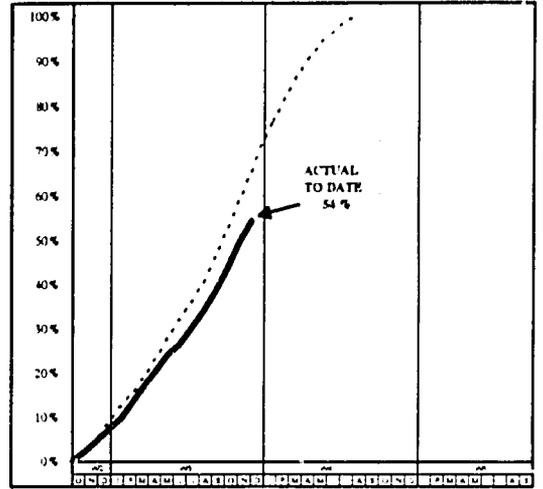


II EXECUTIVE SUMMARY

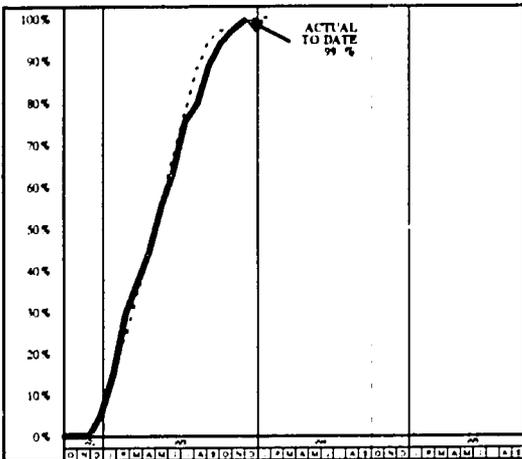
Summary Curves



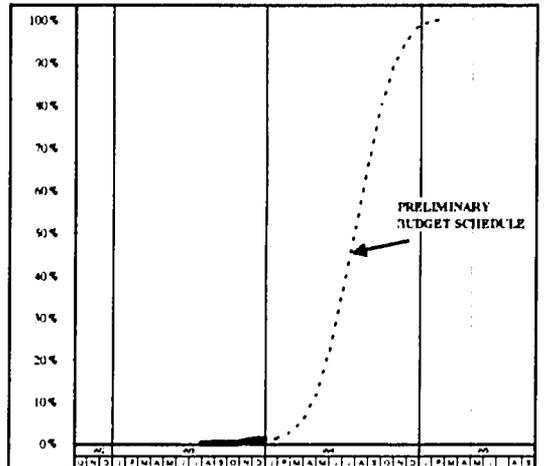
Total Project



Consulting Services



Digital Switching



Outside Plant

I EXECUTIVE SUMMARY

Progress Highlights

CONSULTING SERVICES

- The level of effort for CMC services was estimated to be 54% complete. Staffing is being adjusted to reflect the March, 1995 completion date for outside plant work. When modifications 1 & 2 are funded, the Progress Chart will be adjusted.
- Bechtel, ARENTO and ATTI have been meeting on a regular basis to develop Heliopolis Implementation Plan. Heliopolis Implementation Plan and CPM schedule are now approved. Meetings are being held to plan for site mobilization, completion of ASPD's and update the Contractor's Manual.
- Bechtel and ARENTO prepared comments on ATTI's Test plan, Quality plan and Documentation plan. Meetings were held to explain the comments.

DSS CONTRACT

- DSS contract is estimated to be 99.4% complete. All Digital Switching Systems are now complete.
- Giza RSM provisional Acceptance Certificate was approved in November.
- Ramsis cutover was established on November 11, 1993; and provisional acceptance was completed on December 15, 1993.
- Pyramid cutover was established on November 22, 1993; and provisional acceptance was completed on December 28, 1993. The 4K addition cutover and provisional acceptance testing are expected to be completed in January.

COM SYSTEM

- The COM System which became operational on September 30th is currently 95.5% complete. Trunk facilities between Cairo and Alexandria are expected by ARENTO in January.
- A cost proposal for modification 2 was submitted by Bechtel, this modification will provide COM System Support for the development of traffic, operating and maintenance reports plus support training.
- COM System training activities which began in October are scheduled to complete in February.

I EXECUTIVE SUMMARY

Progress Highlights

OSP CONTRACT

- The OSP Contract is estimated to be 1.1% complete.
- The Heliopolis ASPD has been approved and engineering is estimated to be 18% complete. The Auto ASPD was approved in December and engineering is estimated to be 14% complete. The Giza SPD has not been finalized, and it is scheduled to be re-submitted in February.
- OSP Cost Trends are being monitored by exchange and a definitive cost forecasts are scheduled to be performed at 40% engineering.
- Bechtel met with ARENTO, USAID and ATTI to review comments on the proposed civil subcontract with Kajima. Subcontractor submittals for Auto and Giza are overdue.
- During this quarter, Bechtel continued to hold meetings with AT&T in order to finalize planning and reporting issues. Larry Hollis, Bechtel's construction quality specialist, has been assisting with the development of the project Quality control plan and ARENTO field engineering and Inspection Manual.

II WORK STATUS

Consulting Services

GENERAL

Bechtel and its subcontractor Teleconsult began work on the Construction Management Consulting Contract (CMC) on October 1, 1992. Under its contract with USAID, Bechtel works with ARENTO, as their agent, to administer two host country construction contracts prepared and awarded by ARENTO for the digital switching systems and the outside plant networks funded under the USAID Telecommunications IV Project (263-0177) grant. The tasks performed under this contract were originally scheduled to be completed within 23 months, with a level of effort staffing. A schedule extension was processed to cover the OSP Contract period.

WORK STATUS

Consulting Services were estimated to be 54.2% complete against the original budget after the first fifteen months. The progress chart will be revised after modifications 1 & 2 are funded. Bechtel and Teleconsult had a total equivalent staff of six expatriates and thirteen nationals.

Major Accomplishments:

- Assisted with Ramsis and Pyramid cutovers on November 11 and November 22 respectively.
- Conducted the first meeting with ARENTO O&M, project and planning representatives.
- Approved heliopolis Implementation plan, CPM and ASPD.
- Approved SPD for Auto exchange subject to minor modifications.
- Held meetings to finalize OSP planning and reporting issues.
- Reviewed and commented Quality plan, Test plan, and Documentation plan.
- Held meetings with ARENTO and ATTI to plan for site mobilization and review the proposed civil subcontract with Kajima.

II WORK STATUS

Activities Next Quarter

- Complete cutover and provisional acceptance testing for the 4K addition at Pyramid exchange.
- Monitor COM System training activities which are scheduled to complete in February.
- Review and approve Auto and Giza ASPDs.
- Review and approve Auto and Giza Implementation Plans.
- Monitor key events to mobilize OSP field offices for construction. (Exhibit A)

II WORK STATUS

DSS Contract

GENERAL

Contract No. 10/92/21 between ARENTO and AT&T International, Inc. (ATTI) was signed on October 15, 1992 and became effective on November 3, 1992. The contract requires ATTI to design, furnish, install and maintain AT&T #5ESS digital electronic central office switches on a turnkey basis. The Centralized Operations and Maintenance (COM) System effective date was May 24, 1993.

FINANCIAL:

- Amendment No. 1 for miscellaneous contract adjustments and Amendment No. 2 for the COM System with costs of \$3,925,014 and LE 419,598 were processed. The revised budget for the DSS Contract scope managed by Bechtel is \$24,683,250 and LE 1,942,083. See Exhibit 3.1, DSS Cost and Commitment Report.
- Quarterly Cash Flows (Exhibit 4.1) are lower than planned primarily due to slower than expected invoicing by ATTI. This period, \$ 2,804,647 and LE 112,894 were expended; to date totals are \$17,402,747 and LE 744,463.

SCHEDULE:

- The DSS contract is estimated to be 99.4% complete; ahead of schedule. All Digital Switching Systems are complete.
- Giza RSM Provisional Acceptance Certificate was approved in November.
- Ramsis cutover was established on November 11, and provisional acceptance was complete on December 15.
- Pyramid cutover was established on November 22, and provisional acceptance was complete on December 28. Cutover and Provisional Acceptance Testing for the 4K addition are scheduled to be complete in January.
- COM System is 95.5% complete; completion of work pending the availability of trunk facilities between Cairo and Alexandria.
- COM System training which began in October is scheduled to be complete in February.

II WORK STATUS

OSP Contract

GENERAL

Contract No. 7/92/30 between ARENTO and AT&T International, Inc. was signed on July 15, 1993 and became effective on July 21, 1993. The schedule duration is 600 days.

The Outside Plant Contract is for 23,700 lines in Heliopolis, 18,600 lines in Auto, and 21,400 lines in Giza.

FINANCIAL:

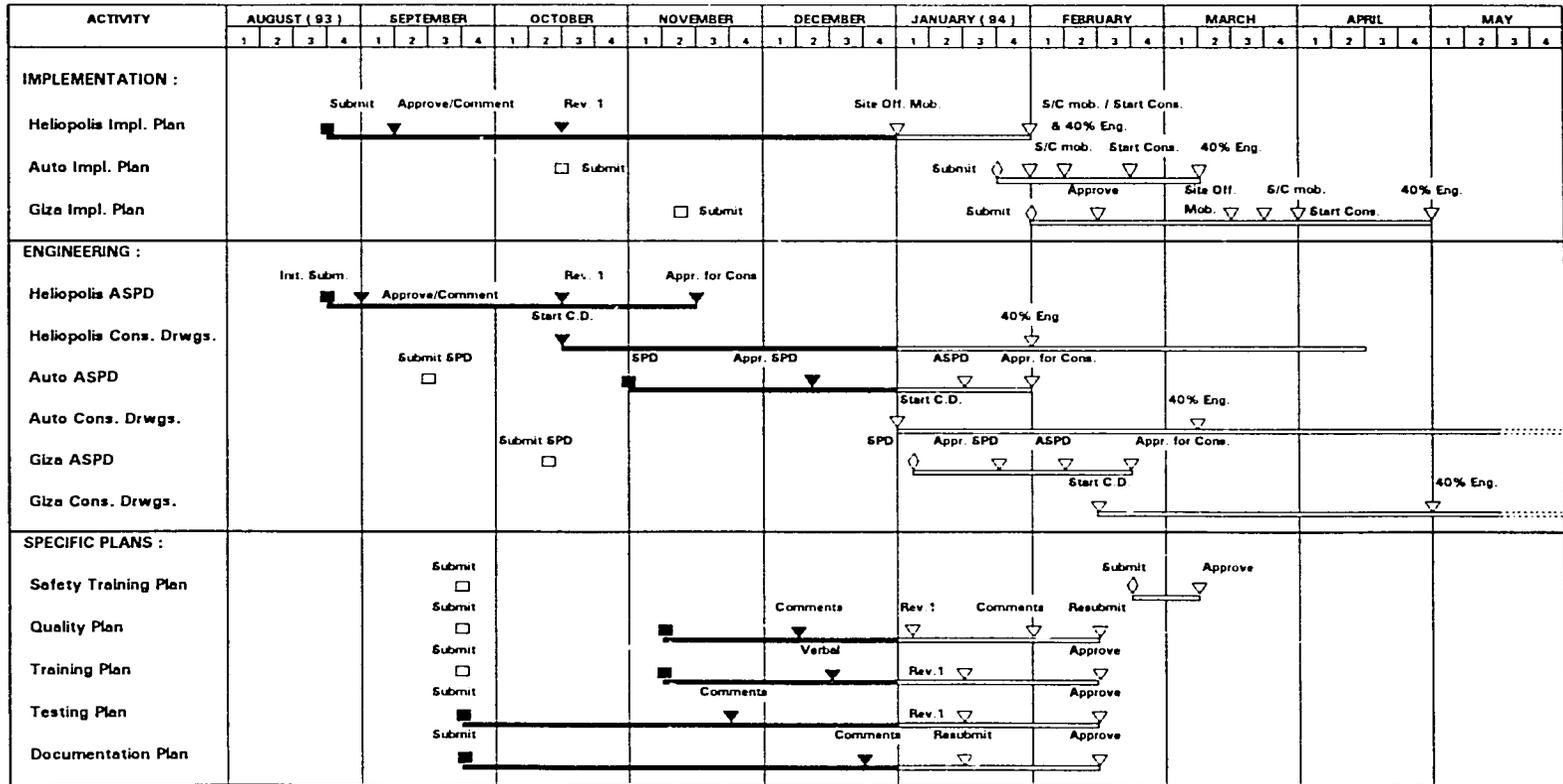
- The total contract value is \$10,000,000 financed by USAID and LE 10,528,854 financed by ARENTO. See Exhibit 3.2, OSP Cost and Commitment Report.
- Payment vouchers that total \$1,406,120 and L.E. 1,729,328 have been processed to date. The OSP Cash Flow is shown in Exhibit 4.2.

SCHEDULE:

- The OSP Contract is estimated to be 1.1% complete. Heliopolis is 1.8% complete. ASPD for Heliopolis exchange were approved in November, and Heliopolis engineering is 18% complete.
- Auto SPDs were approved in December subject to the incorporation of minor revisions.
- Giza SPDs are expected in early January.
- Bechtel reviewed and commented the Quality Plan, Test plan and Documentation plan. Comments will be incorporated by AT&T.
- Meetings were held to plan for site mobilization and explain the comments on the proposed civil subcontract with Kajima.

**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT
OSP SITE MOBILIZATION SCHEDULE (Exhibit A)**

December, 1993



□ / ◇ / ■ Contract Milestone (Contract / Forecast / Actual)
▼ / ▽ Intermediate Dates (Forecast / Actual)

III PROGRESS STATISTICS

Exhibit 1.1, DSS Progress Curve
Exhibit 1.2, OSP Progress Curve (Preliminary)

Exhibit 2.1, DSS Contract Manpower Histogram
Exhibit 2.2, OSP Contract Manpower Histogram (future)

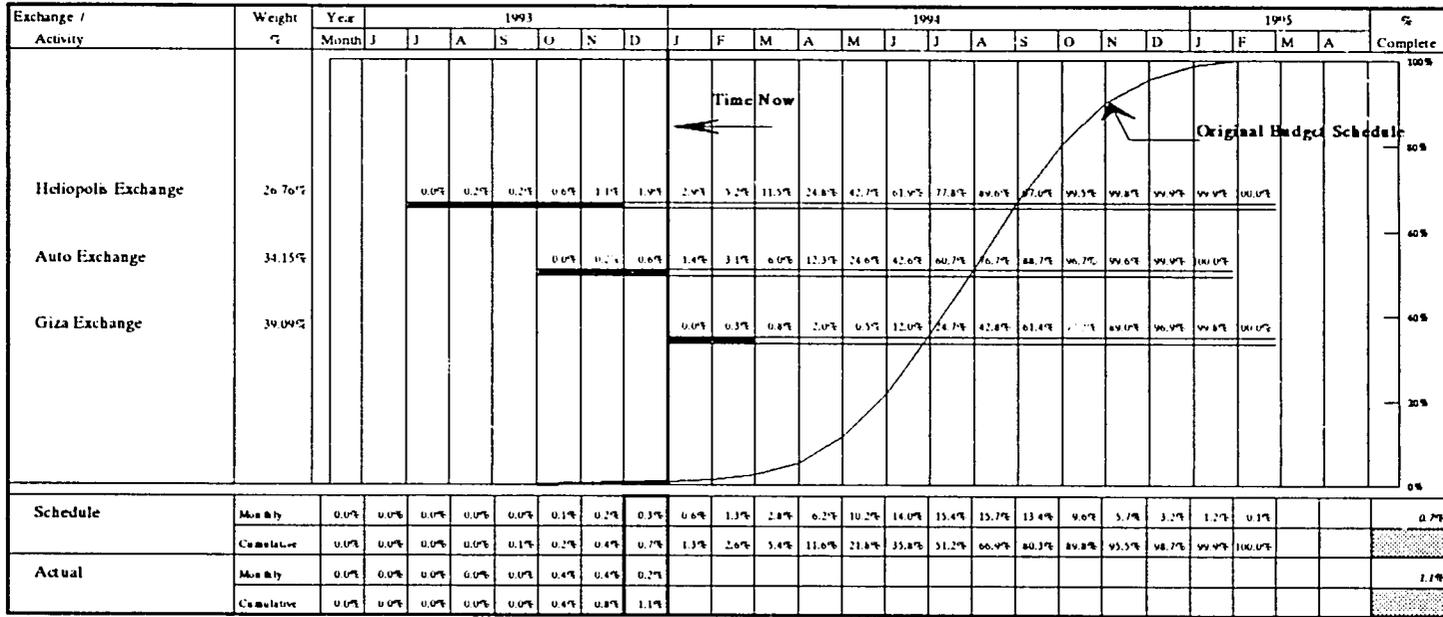
Exhibit 3.1, DSS Cost & Commitment Report
Exhibit 3.2, OSP Cost & Commitment Report

Exhibit 4.1, DSS Quarterly Cash Flow
Exhibit 4.2, OSP Quarterly Cash Flow

Exhibit 5.1, DSS Change Order Summary
Exhibit 5.2, OSP Change Order Summary

CONSTRUCTION MANAGEMENT CONSULTING CONTRACT
 PRELIMINARY OSP PROGRESS CURVE (Exhibit 1.2)
 OSP CONTRACT
 December, 1993

III
 PROGRESS STATISTICS



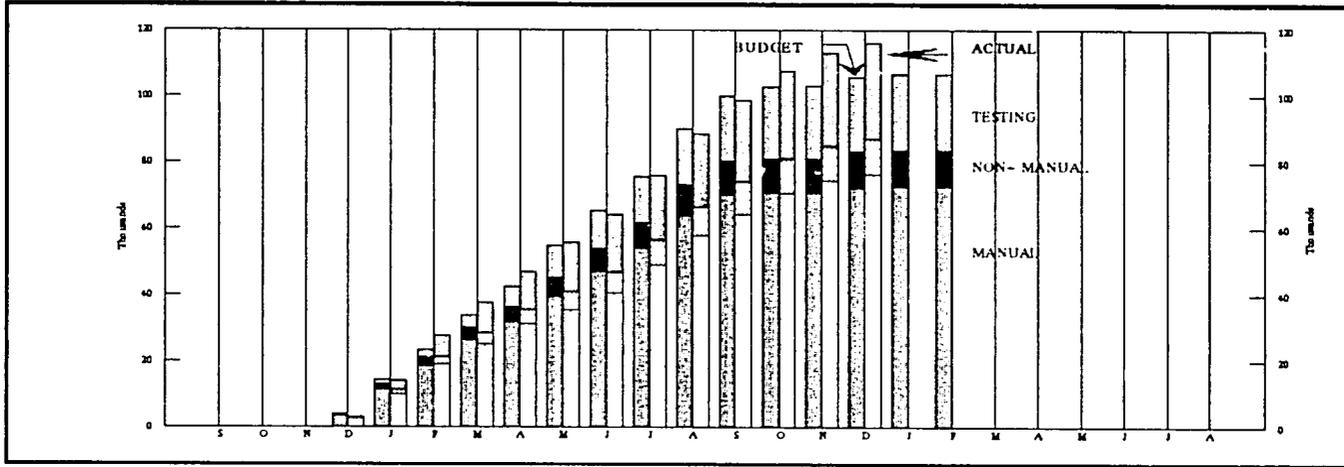
III-2

NOTES:

- (1) Heliopolis, Auto and Giza exchanges progress curves were produced on 10/93 using B.O.Q. quantities and normal activity distributions.
- (2) Overall OSP progress curve uses relative weights based on cost.

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**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT
DSS MANPOWER HISTOGRAM (Exhibit 2.1)
DSS CONTRACT
December, 1993**



III-3

Description	1992				1993												1994					Total Totdate				
	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M		J	J	A	
Budget																										
Manual																										
Monthly					3458	8164	7053	8098	5072	7908	7714	6652	10114	6220	457	32	1864									
Cumulative	0	0	0	0	3,458	11,622	18,675	26,773	31,845	39,753	47,467	54,119	64,233	70,453	70,910	70,942	72,806									
Non - Manual																										
Monthly					433	1054	864	1040	855	1199	1060	1021	1475	958	266	7	353									
Cumulative	0	0	0	0	433	1,487	2,341	3,381	4,236	5,435	6,535	7,556	9,031	9,989	10,255	10,262	10,615									
Testing																										
Monthly					452	1065	920	1282	2915	2682	1932	2635	3215	2413	2141	225	523									
Cumulative	0	0	0	0	452	1,517	2,437	3,719	6,634	9,316	11,448	14,083	17,298	19,711	21,852	22,077	22,600									
Actual																										
Monthly					2742	7269	9076	6124	6240	4129	5046	8464	8740	6419	6505	3891	1970									
Cumulative	0	0	0	0	2,742	10,011	19,087	25,211	31,451	35,580	40,626	49,090	57,830	64,249	70,754	74,645	76,615									
Non - Manual																										
Monthly					226	1024	884	1,075	885	1199	1060	1021	1483	1021	286	44	210									
Cumulative	0	0	0	0	226	1,250	2,134	3,209	4,094	5,293	6,353	7,374	8,857	9,878	10,164	10,208	10,418									
Testing																										
Monthly					283	2,825	3,354	2,795	2,202	3,250	2,218	2,497	2,355	2,676	2,393	1,480	766									
Cumulative	0	0	0	0	283	3,108	6,462	9,257	11,459	14,909	17,127	19,624	21,979	24,605	26,998	28,478	29,244									

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**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT
 COST AND COMMITMENT REPORT (Exhibit 3.1)
 D.S.S. CONTRACT
 December, 1993**

**III
 PROGRESS STATISTICS**

Item No.	General Description of Supplies and / or Services	Budget (Contractual Obligation)		Cost			
		U.S. Dollars	Egyptian Pounds	This Period		Total ITD	
				U.S. Dollars	Egyptian Pounds	U.S. Dollars	Egyptian Pounds
1.	GIZA EXCHANGE						
1.1	Switching Equipment - 24,000 Lines	\$3,485,462	74,000	\$57,050	0	\$2,775,986	14,800
1.2	MDF	\$237,048	0	\$141,509	0	\$189,638	0
1.3	Power System	\$111,791	0	\$4,312	0	\$89,433	0
1.4	Standby Power System	\$289,639	24,900	\$0	0	\$231,711	4,980
1.5	HVAC System	\$78,930	0	\$4,763	0	\$63,144	0
1.6	Fire Detection System	\$0	22,304	\$0	0	\$0	4,461
1.7	Security System	\$28,550	0	\$0	0	\$22,840	0
1.8	Raised Floor and Partitions	Included	0	\$0	0	\$0	0
1.9	Documentation / Documentation Office	\$6,990	3,000	\$0	0	\$1,398	600
1.10	Insurance and Transportation to Site	Included	0	\$0	0	\$0	0
1.11	Installation and Testing for Cutover and Provisional Acceptance	\$472,446	280,961	\$28,347	16,858	\$349,610	207,912
1.12	Spare Parts and Consumables - CIF	\$338,627	0	\$4,797	0	\$270,902	0
1.13	Tools and Equipment - CIF	\$10,995	0	\$0	0	\$9,072	0
1.14	Insurance and Transportation	Included	0	\$0	0	\$0	0
1.15	Maintenance Personnel	No Charge	0	\$0	0	\$0	0
1.16	Testing	\$6,689	0	\$0	0	\$0	0
1.	GIZA EXCHANGE Total	\$5,067,167	405,165	\$240,777	16,858	\$4,003,733	232,753
2.	RAMSIS EXCHANGE						
2.1	Switching Equipment - 20,000 Lines	\$3,428,956	78,000	\$5,314	0	\$2,730,781	15,600
2.2	MDF	\$54,628	0	\$2,777	0	\$43,702	0
2.3	Power System	\$102,620	0	\$0	0	\$82,096	0
2.4	Standby Power System	\$334,500	26,700	\$0	0	\$267,600	5,340
2.5	HVAC System	\$53,218	0	\$3,534	0	\$42,574	0
2.6	Fire Detection System	\$0	22,304	\$0	0	\$0	4,461
2.7	Security System	\$28,550	0	\$965	0	\$22,840	0
2.8	Raised Floor and Partitions	Included	0	\$0	0	\$0	0
2.9	Documentation / Documentation Office	\$6,990	3,000	\$0	0	\$1,398	600
2.10	Insurance and Transportation to Site	Included	0	\$0	0	\$0	0
2.11	Installation and Testing for Cutover and Provisional Acceptance	\$440,533	122,268	\$37,760	10,480	\$314,666	87,334
2.12	Spare Parts and Consumables - CIF	\$343,023	0	\$0	0	\$277,630	0
2.13	Tools and Equipment - CIF	\$10,995	0	\$0	0	\$9,072	0
2.14	Insurance and Transportation	Included	0	\$0	0	\$0	0
2.15	Maintenance Personnel	No Charge	0	\$0	0	\$0	0
2.16	Testing	\$6,689	0	\$0	0	\$0	0
2.	RAMSIS EXCHANGE Total	\$4,810,702	252,272	\$50,349	10,480	\$3,792,360	113,335

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CONSTRUCTION MANAGEMENT CONSULTING CONTRACT
COST AND COMMITMENT REPORT (Exhibit 3.1 cont'd)
D.S.S. CONTRACT
 December, 1993

III
PROGRESS STATISTICS

Item No.	General Description of Supplies and / or Services	Budget (Contractual Obligation)		Cost			
		U.S. Dollars	Egyptian Pounds	This Period		Total ITD	
				U.S. Dollars	Egyptian Pounds	U.S. Dollars	Egyptian Pounds
3. OPERA EXCHANGE							
3.1	Switching Equipment - 20,000 Lines	\$3,428,956	78,000	\$0	0	\$2,739,496	15,600
3.2	MDF	\$54,628	0	\$0	0	\$10,926	0
3.3	Power System	\$101,721	0	\$0	0	\$81,377	0
3.4	Standby Power System	\$456,100	31,000	\$0	0	\$364,880	6,200
3.5	HVAC System	\$53,218	0	\$942	0	\$42,574	0
3.6	Fire Detection System	\$0	22,304	\$0	0	\$9	4,461
3.7	Security System	\$28,550	0	\$0	0	\$22,840	0
3.8	Raised Floor and Partitions	Included	0	\$0	0	\$0	0
3.9	Documentation / Documentation Office	\$6,990	3,000	\$0	0	\$1,398	600
3.10	Insurance and Transportation to Site	Included	0	\$0	0	\$0	0
3.11	Installation and Testing for Cutover and Provisional Acceptance	\$457,078	122,268	\$0	0	\$365,662	97,814
3.12	Spare Parts and Consumables - CIF	\$344,510	0	\$5,236	0	\$275,608	0
3.13	Tools and Equipment - CIF	\$10,995	0	\$0	0	\$9,072	0
3.14	Insurance and Transportation	Included	0	\$0	0	\$0	0
3.15	Maintenance Personnel	No Charge	0	\$0	0	\$0	0
3.16	Testing	\$6,689	0	\$0	0	\$0	0
3.	OPERA EXCHANGE Total	\$4,949,435	256,572	\$6,178	0	\$3,913,832	124,675
4. PYRAMID EXCHANGE							
4.1	Switching Equipment - 24,000 Lines plus RSM Host Equipment	\$3,888,228	78,400	\$518,274	0	\$3,110,582	15,680
4.2	MDF	\$279,700	0	\$167,820	0	\$223,760	0
4.3	Power System	\$134,927	0	\$80,956	0	\$107,942	0
4.4	Standby Power System	\$289,639	24,900	\$0	0	\$57,928	3,090
4.5	HVAC System	\$53,218	0	\$31,931	0	\$42,574	0
4.6	Fire Detection System	\$0	22,304	\$0	0	\$0	4,461
4.7	Security System	\$28,550	0	\$965	0	\$6,675	0
4.8	Raised Floor and Partitions	Included	0	\$0	0	\$0	0
4.9	Documentation / Documentation Office	\$6,990	3,000	\$0	0	\$1,398	600
4.10	Insurance and Transportation to Site	Included	0	\$0	0	\$0	0
4.11	Installation and Testing for Cutover and Provisional Acceptance	\$515,976	323,166	\$30,959	19,408	\$288,947	181,141
4.12	Spare Parts and Consumables - CIF	\$382,167	0	\$118,544	0	\$284,679	0
4.13	Tools and Equipment - CIF	\$10,846	0	\$6,508	0	\$8,677	0
4.14	Insurance and Transportation	Included	0	\$0	0	\$0	0
4.15	Maintenance Personnel	No Charge	0	\$0	0	\$0	0
4.16	Testing	\$6,689	0	\$0	0	\$0	0
4.	PYRAMID EXCHANGE Total	\$5,596,930	452,070	\$955,956	19,408	\$4,133,162	204,972

III-5

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CONSTRUCTION MANAGEMENT CONSULTING CONTRACT
COST AND COMMITMENT REPORT (Exhibit 3.1 cont'd)
D.S.S. CONTRACT
 December, 1993

III
PROGRESS STATISTICS

9-III

Item No.	General Description of Supplies and / or Services	Budget (Contractual Obligation)		Cost			
		U.S. Dollars	Egyptian Pounds	This Period		Total IID	
				U.S. Dollars	Egyptian Pounds	U.S. Dollars	Egyptian Pounds
5. COM SYSTEM							
5.1	Software Right - to-use Licenses	\$1,945,126	0	\$857,558	0	\$1,052,070	0
5.2	MFOS, TFS and SDAD Equipment	\$797,527	0	\$0	0	\$797,523	0
5.3	DATAKIT Equipment	\$442,640	0	\$180,620	0	\$224,884	0
5.4	Modems for basic MFOS	\$89,917	0	\$0	0	\$8,992	0
5.5	USP	\$211,146	0	\$0	0	\$21,115	0
5.6	Standby Power System	\$0	0	\$0	0	\$5,338	0
5.7	HVAC Equipment	\$53,377	0	\$0	0	\$0	0
5.8	Fire Detection System	\$0	3,000	\$0	0	\$0	300
5.9	Security System	\$0	0	\$0	0	\$0	0
5.10	Raised Floor, Ceiling, Lighting And partitions	\$12,558	14,477	\$7,535	0	\$8,791	1,448
5.11	Documentation (2sets)	included	included	\$0	0	\$0	0
5.12	Insurance and Transportation to Site	included	included	\$0	0	\$0	0
5.13	Engineering Installation and Testing for Cutover and Provisional Acceptance	\$93,304	80,300	\$0	0	\$9,330	8,030
5.14	Spare Parts (3 years) CIF	\$234,939	0	\$0	0	\$23,494	0
5.15	Tools and Test Equipment - CIF	\$0	0	\$0	0	\$0	0
5.16	Insurance and Transportation	included	included	\$0	0	\$0	0
5.17	Maintenance Personnel - For One (1) Year after Provisional acceptance	Free of Charge	Free of Charge	\$0	0	\$0	0
5.18	Software Maintenance - Untile Final Acceptance	Free of Charge	Free of Charge	\$0	0	\$0	0
5.19	Testing	included	included	\$0	0	\$0	0
5.20	Training Unit System V	\$64,614	0	\$0	0	\$0	0
5.21	Training SMS (2 classes)	\$71,916	0	\$0	0	\$0	0
5.22	Training TFS	\$27,529	0	\$0	0	\$0	0
5.23	Training SDAS	\$27,918	0	\$0	0	\$0	0
5.24	Training DATAKIT	\$45,390	0	\$0	0	\$0	0
5.25	Training 3B2 Maintenance	\$38,756	0	\$0	0	\$0	0
5.26	Price Adjustment for Training (Item 5.20 to 5.25)	(\$96,643)	321,821	\$0	0	\$0	0
5.27	Contract Price Reduction For Training (Item 5.20 to 5.25)	(\$35,000)	0	\$0	0	\$0	0
	TOTAL FOR COM SYSTEM	\$4,025,014	419,598	\$0	0	\$0	0
	One Time Price discount for the COM System	(\$100,000)	0	\$0	0	\$0	0
5.	COM CENTER Total	\$3,925,014	419,598	\$1,045,713	0	\$1,433,766	9,778
6.	PROGRAM MANAGEMENT	\$334,002	156,406	\$10,277	4,812	\$125,893	58,950
7.	TRAINING PROGRAM	To be determined		\$0	0	\$0	0
TOTAL		\$24,683,250	1,942,083	\$2,309,250	\$1,558	\$17,402,747	744,463

Note: Prices are as per Amendment #2 (COM center included)

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**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT
 COST AND COMMITMENT REPORT (Exhibit 3.2)
 O.S.P. CONTRACT
 December, 1993**

III
 PROGRESS STATISTICS

Item	Description	Budget (Contractual Obligation)		Cost			
		U.S. Dollars	Egyptian Pounds	This Period		Total ITD	
				U.S. Dollars	Egyptian Pounds	U.S. Dollars	Egyptian Pounds
HELIOPOLIS EXCHANGE							
1.	Manholes, Handholes, and Vaults	556	6,840	\$83	1,026	\$83	1,026
2.	Conduit Systems	0	38,539	\$0	5,781	\$0	5,781
3.	Feeder Cable and Associated Equipment	1,338,358	209,076	\$200,754	31,361	\$200,754	31,361
4.	Distribution Segment	726,109	1,334,047	\$108,916	200,107	\$108,916	200,107
5.	Existing Plant	0	36,793	\$0	5,519	\$0	5,519
7.	Preliminary Engineering	0	0	\$0	0	\$0	0
9.	Documentation	5,500	24,153	\$825	3,623	\$825	3,623
10.	Maintenance	0	144,923	\$0	21,738	\$0	21,738
11.	Rock	0	0	\$0	0	\$0	0
12.	Extra Depth	0	0	\$0	0	\$0	0
13.	False Digging	0	0	\$0	0	\$0	0
14.	Extra Concrete	0	0	\$0	0	\$0	0
15.	Extra Reinforced Concrete	0	0	\$0	0	\$0	0
16.	Locking Manhole Cover	0	0	\$0	0	\$0	0
HELIOPOLIS EXCHANGE TOTAL.		\$2,070,522	L.E. 1,794,370	\$310,578	269,156	\$310,578	269,156
AUTO EXCHANGE							
1.	Manholes, Handholes, and Vaults	5,105	77,635	\$766	11,645	\$766	11,645
2.	Conduit Systems	8,613	990,282	\$1,292	148,542	\$1,292	148,542
3.	Feeder Cable and Associated Equipment	935,599	191,151	\$140,340	28,673	\$140,340	28,673
4.	Distribution Segment	854,190	1,833,613	\$128,128	275,042	\$128,128	275,042
5.	Existing Plant	245,971	681,590	\$36,896	102,238	\$36,896	102,238
7.	Preliminary Engineering	0	243,443	\$0	36,516	\$0	36,516
9.	Documentation	5,500	24,153	\$825	3,623	\$825	3,623
10.	Maintenance	0	144,923	\$0	21,738	\$0	21,738
11.	Rock	0	0	\$0	0	\$0	0
12.	Extra Depth	0	0	\$0	0	\$0	0
13.	False Digging	0	0	\$0	0	\$0	0
14.	Extra Concrete	0	0	\$0	0	\$0	0
15.	Extra Reinforced Concrete	0	0	\$0	0	\$0	0
16.	Locking Manhole Cover	0	0	\$0	0	\$0	0
AUTO EXCHANGE TOTAL.		\$2,054,977	L.E. 4,186,789	\$308,247	628,018	\$308,247	628,018

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CONSTRUCTION MANAGEMENT CONSULTING CONTRACT
COST AND COMMITMENT REPORT (Exhibit 3.2 cont'd)
O.S.P. CONTRACT
 December, 1993

III PROGRESS STATISTICS

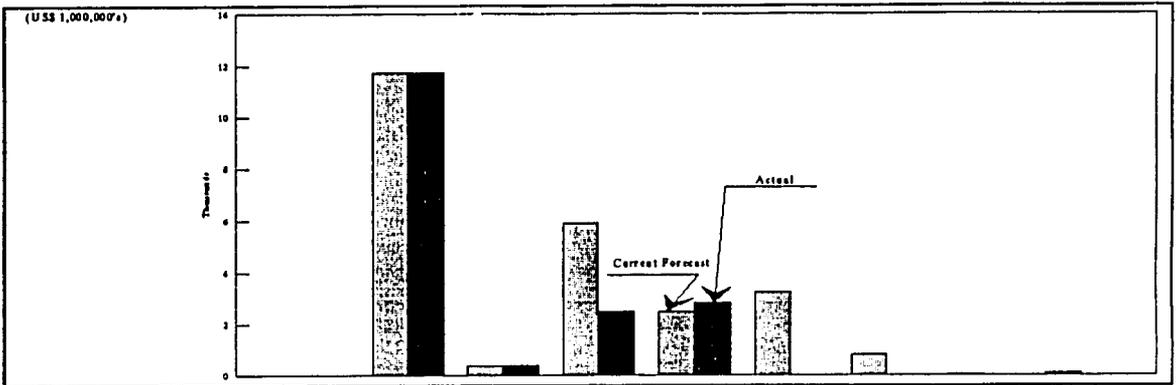
Item	Description	Budget (Contractual Obligation)		Cost			
				This Period		Total ITD	
		U.S. Dollars	Egyptian Pounds	U.S. Dollars	Egyptian Pounds	U.S. Dollars	Egyptian Pounds
GIZA EXCHANGE							
1.	Manholes, Handholes, and Vaults	20,009	246,240	\$3,001	36,936	\$3,001	36,936
2.	Conduit Systems	0	788,647	\$0	118,297	\$0	118,297
3.	Feeder Cable and Associated Equipment	1,382,521	344,844	\$207,378	51,727	\$207,378	51,727
4.	Distribution Segment	1,120,583	2,251,199	\$168,087	337,680	\$168,087	337,680
5.	Existing Plant	0	85,680	\$0	12,852	\$0	12,852
7.	Preliminary Engineering	0	304,304	\$0	45,646	\$0	45,646
9.	Documentation	5,500	24,153	\$825	3,623	\$825	3,623
10.	Maintenance	0	144,923	\$0	21,738	\$0	21,738
11.	Rock	0	0	\$0	0	\$0	0
12.	Extra Depth	0	0	\$0	0	\$0	0
13.	False Digging	0	0	\$0	0	\$0	0
14.	Extra Concrete	0	225	\$0	34	\$0	34
15.	Extra Reinforced Concrete	0	552	\$0	83	\$0	83
16.	Locking Manhole Cover	0	0	\$0	0	\$0	0
GIZA EXCHANGE TOTAL		\$2,528,612	LE 4,190,766	\$379,292	628,615	\$379,292	628,615
COMMON ITEMS							
6.	Warehouse Inventory	0	0	\$0	0	\$0	0
8.	Training	491,387	0	\$73,708	0	\$73,708	0
9.4	Documentation Center (Ramis)	11,000	24,153	\$1,650	3,623	\$1,650	3,623
17.	Program Management	2,617,636	1,332,777	\$392,645	199,916	\$392,645	199,916
18.	Price Discount	0	(1,000,000)	\$0	0	\$0	0
COMMON ITEMS TOTAL		\$3,120,022	LE 356,929	\$468,003	203,539	\$468,003	203,539
SUB-TOTAL OSP CONTRACT		\$9,774,134	LE 10,528,854	\$1,466,120	1,729,328	\$1,466,120	1,729,328
CONTINGENCIES		\$225,866	LE 0				
TOTAL OSP CONTRACT		\$10,000,000	LE 10,528,854	\$1,466,120	1,729,328	\$1,466,120	1,729,328

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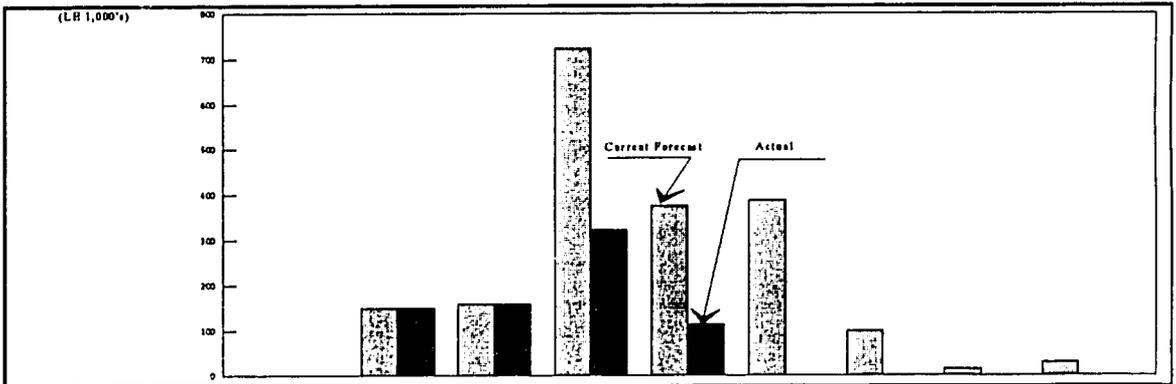
III PROGRESS STATISTICS

CONSTRUCTION MANAGEMENT CONSULTING CONTRACT QUARTERLY CASH FLOW REPORT (Exhibit 4.1) DSS CONTRACT December, 1993



Description		1992				1993				1994				Total To Date	
		4th. Quarter	1st. Quarter	2nd. Quarter	3rd. Quarter	4th. Quarter	1st. Quarter	2nd. Quarter	3rd. Quarter	4th. Quarter	1st. Quarter	2nd. Quarter	3rd. Quarter		4th. Quarter
Budget	Quarterly	\$0	\$11,746	\$373	\$5,918	\$2,468	\$3,735	\$818	\$46	\$79					\$24,683
	Cumulative	\$0	\$11,746	\$12,119	\$18,037	\$20,505	\$24,240	\$24,359	\$24,604	\$24,683					
Actual	Quarterly	\$0	\$11,746	\$373	\$2,479	\$2,805									\$17,403
	Cumulative	\$0	\$11,746	\$12,119	\$14,598	\$17,403									

US Dollars Financed By USAID



Description		1992				1993				1994				Total To Date	
		4th. Quarter	1st. Quarter	2nd. Quarter	3rd. Quarter	4th. Quarter	1st. Quarter	2nd. Quarter	3rd. Quarter	4th. Quarter	1st. Quarter	2nd. Quarter	3rd. Quarter		4th. Quarter
Budget	Quarterly	0	150	159	723	377	388	100	13	30					1,942
	Cumulative	0	150	309	1,032	1,408	1,796	1,896	1,912	1,942					
Actual	Quarterly	0	150	159	323	113									44
	Cumulative	0	150	309	632	745									

Egyptian Pounds Financed By ARENTO

CONSTRUCTION MANAGEMENT CONSULTING CONTRACT
 QUARTERLY CASH FLOW REPORT (Exhibit 4.1 cont'd)
 DSS CONTRACT
 As of December 31, 1992

Description / Duration		4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
		11/92 - 12/92	01/93-03/93	04/93-06/93	07/93-09/93	10/93-12/93	01/94-03/94	04/94-06/94	07/94-09/94	10/94-12/94
US Dollars Financed By										
USAID	F	\$0	\$11,746,185	\$372,607	\$5,918,210	\$2,468,325	\$3,235,158	\$818,216	\$45,668	\$78,881
	A	\$0	\$11,746,185	\$372,607	\$2,479,309	\$2,804,647				
Egyptian Pounds Financed By										
ARENTO	F	0	150,115	158,731	722,729	376,907	387,869	100,058	15,225	30,450
	A	0	150,115	158,731	322,723	112,894				

Description / Duration		Disbursement To Date	Balance To Go	Total Cost
US Dollars Financed By				
USAID	F	\$20,505,327	\$4,177,923	\$24,683,250
	A	\$17,402,748	\$0	\$17,402,748
Egyptian Pounds Financed By				
ARENTO	F	1,408,482	533,602	1,942,084
	A	744,463	0	744,463

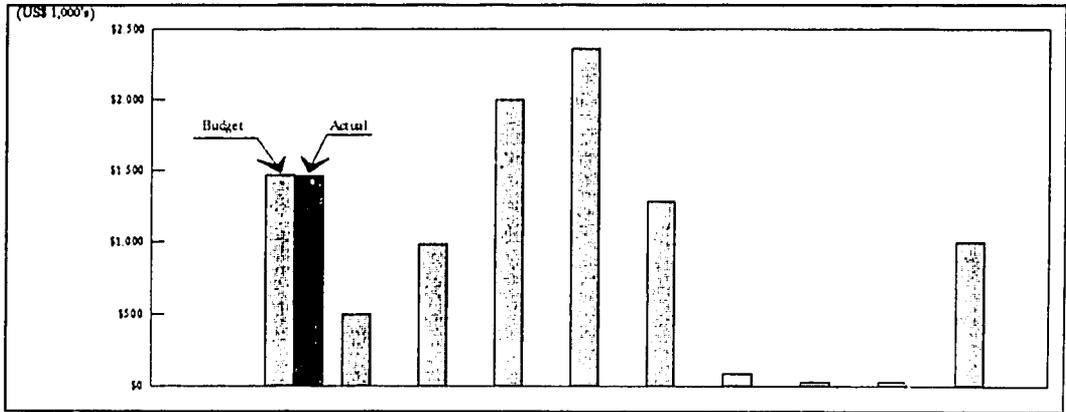
NOTES:

- (1) The COM center is incorporated in the current forecast
- (2) F = Current Forecast For Disbursement
A = Actual Disbursement
- (3) The difference in the amount disbursed between the Forecast (F) and the Actual (A) is caused by not presenting the invoices of the following :
 1. The balance of the remaining 60% materials and spare parts for the switches delivered and erected
 2. The 10% advance payments and 60% materials for the COM System.

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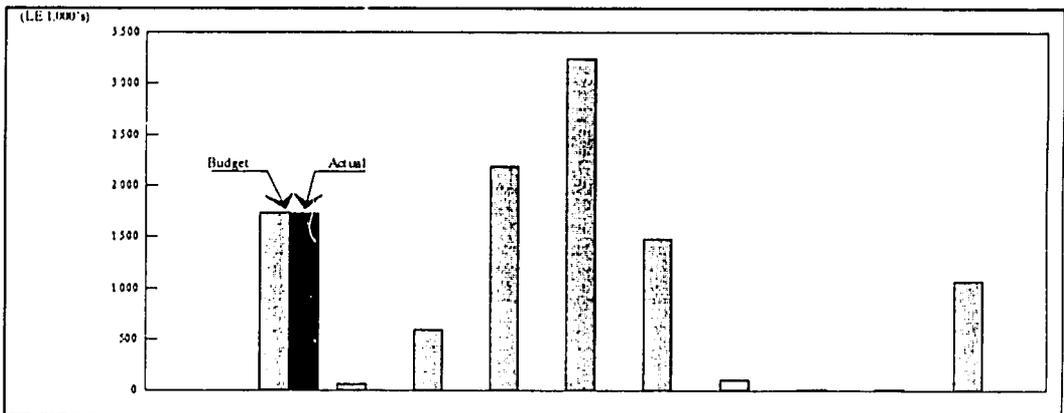
III PROGRESS STATISTICS

CONSTRUCTION MANAGEMENT CONSULTING CONTRACT QUARTERLY CASH FLOW REPORT (Exhibit 4.2) OSP CONTRACT December, 1993



Description	1993		1994				1995				1996	Total To Date	
	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter		
Budget	Quarterly	\$0	\$1,472	\$501	\$991	\$1,998	\$2,362	\$1,293	\$901	\$29	\$29	\$1,007	\$9,774
	Cumulative	\$0	\$1,472	\$1,974	\$2,964	\$4,963	\$7,325	\$8,618	\$8,708	\$8,738	\$8,767	\$9,774	\$1,466
Actual	Quarterly	\$0	\$1,466										\$1,466
	Cumulative	\$0	\$1,466										\$1,466

US Dollars Financed By USAID
(US\$ 1,000's)



Description	1993		1994				1995				1996	Total To Date	
	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter		
Budget	Quarterly	0	1,735	72	593	2,188	3,245	1,483	116	15	15	1,068	10,529
	Cumulative	0	1,735	1,807	2,400	4,588	7,833	9,315	9,431	9,446	9,461	10,529	1,729
Actual	Quarterly	0	1,729										1,729
	Cumulative	0	1,729										1,729

Egyptian Pounds Financed By ARENTO
(LE 1,000's)

**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT
 QUARTERLY CASH FLOW REPORT (Exhibit 4.2 cont'd)
 OSP CONTRACT
 As of December 31, 1993**

Description / Duration		3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter
		07/93 - 09/93	10/93 - 12/93	01/94 - 03/94	04/94 - 06/94	07/94 - 09/94	10/94 - 12/94	01/95 - 03/95	04/95 - 06/95	07/95 - 09/95	10/95 - 12/95	01/96 - 03/96
US Dollars Financed By												
USAID	F	\$0	\$1,472,332	\$501,397	\$990,621	\$1,998,346	\$2,362,359	\$1,293,403	\$89,918	\$29,448	\$29,448	\$1,006,862
	A	\$0	\$1,466,120									
Egyptian Pounds Financed By												
ARENTO	F	0	1,734,711	72,120	593,033	2,187,855	3,244,820	1,482,794	115,654	14,994	14,994	1,067,880
	A	0	1,729,328									

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Description / Duration		Disbursement To Date	Balance To Go	Total Cost
US Dollars Financed By				
USAID	F	\$1,472,332	\$8,301,802	\$9,774,134
	A	\$1,466,120	\$0	\$1,466,120
Egyptian Pounds Financed By				
ARENTO	F	1,734,711	8,794,144	10,528,855
	A	1,729,328	0	1,729,328

NOTES:

- (1) F = Current Forecast For Disbursement
- (2) A = Actual Disbursement

AV

**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT
 AMENDMENT AND IMMEDIATE ACTION CHANGE ORDER (IACO) SUMMARY (Exhibit 5.1)
 DSS CONTRACT
 December, 1993**

III
 PROGRESS STATISTICS

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AMENDMENT NO.	IACO NO.	C.A NO.	DATE EXECUTED BY ARENTO/CHI	Net (2)	
				USD	L.E.
ORIGINAL CONTRACT	-	-	03-Nov-92	\$26,262,479	1,953,923
APPROVED CHANGES :					
AMENDMENT NO.1	N/A	1	09-Feb-93	(\$153,826)	21,336
AMENDMENT NO.2	N/A	2	24-May-93	\$3,925,014	419,598
SUB-TOTAL APPROVED CHANGES				\$3,771,188	440,934
TOTAL CONTRACT				\$30,033,667	2,394,857
PENDING CHANGES :					
N/A	N/A	N/A	N/A	\$0	0
SUB-TOTAL PENDING CHANGES				\$0	0

USAID GRANT NO. 263-0177 (TH. ECUM IV)		USAID GRANT NO. 263-K-620 (CIP)		ARENTO FINANCED NO. FE (1)	
USD	L.E.	USD	L.E.	USD	L.E.
\$20,868,108	0	\$4,707,743	0	\$686,628	1,953,923
(\$109,872)	0	\$0	0	(\$43,954)	21,336
\$2,500,000	0	\$0	0	\$1,425,014	419,598
\$2,390,128	0	\$0	0	\$1,381,060	440,934
\$23,258,236	0	\$4,707,743	0	\$2,067,688	2,394,857
\$0	0	\$0	0	\$0	0
\$0	0	\$0	0	\$0	0

NOTES :

- (1) ARENTO financed local currency includes L.E. 452,775 for Auto exchange, plus L.E. 1,522,485 for Giza, Ramsis, Opera & Pyramids exchanges.
- (2) The total contract value of U.S.D. \$ 30,033,667 includes U.S.D. \$ 4,707,743 financed under USAID grant No.236-K-620 and U.S.D. \$ 2,067,688 financed by ARENTO for Auto exchange & COM System.

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**CONSTRUCTION MANAGEMENT CONSULTING CONTRACT
 AMENDMENT AND IMMEDIATE ACTION CHANGE ORDER (IACO) SUMMARY (Exhibit 5.2)
 OSP CONTRACT
 December, 1993**

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AMENDMENT NO.	IACO NO.	C/A NO.	DATE EXECUTED BY ARENTOOBI	Note (1)		AMOUNT FINANCED BY USAID		AMOUNT FINANCED BY ARENTO			
				USD	LE	USD	LE	USD	LE		
ORIGINAL CONTRACT	-	-	22-Jul-93	\$9,774,134		10,528,854		\$10,000,000	0	\$0	10,528,854
<u>APPROVED CHANGES</u>											
Amendment No 1			22-Dec-93 Note (2)	-		-		-		-	-
SUB-TOTAL APPROVED CHANGES						\$0		\$0		\$0	0
TOTAL CONTRACT						\$9,774,134		\$10,000,000		\$0	10,528,854
<u>PENDING CHANGES</u>											
N/A	N/A	N/A	N/A	\$0		0		\$0		\$0	0
SUB-TOTAL PENDING CHANGES						\$0		\$0		\$0	0

NOTES :

- (1) Amount available for warehouse inventory and contingencies is \$ 225,866
- (2) Amendment No 1 incorporates changes in the wording of Clause 68 entitled "Transfer of Title to ARENTO". Amendment No 1 has no cost impact.

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