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PD-ABU-417

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AFGHANISTAN

HAVA/HACU LOAN No. 306-H012 :

QUARTERLY PROGRESS REPORT No. 6

for the period

APRIL 1, 1972 THROUGH JUNE 30, 1972

HAVA Engineering and Technical Department

Helmand-Arghandab Valley Authority

and

Helmand-Arghandab Construction Unit

HAVA/HACU Loan

Quarterly Progress Report No. 6

Introduction

In accordance with the requirements of Implementation Letter No. 1 to AID Loan No. 306-H-012, five copies of this report (Quarterly Progress Report No. 6) are hereby submitted to USAID/A. Report No. 1 covered the period from May 13, 1968 to September 30, 1970, and the Revised Conditions Precedent, submittal dated April 30, 1971, covers the period from September 1, 1970 to May 1, 1971, and is considered as the second report. Report No. 3 covered the period May 1, 1971 through September 30, 1971. Report No. 4 covered the period October 1, 1971 through December 31, 1971. Report No. 5 covered the period January 1, 1972 through March 31, 1972. This report is for the period April 1, 1972 through June 30, 1972.

Background Information

USAID Loan No. 306-H012 was executed May 13, 1968. The first submittals of the Conditions Precedent to Disbursements were made in late 1969 and in the first half of 1970. Subsequently, it was determined that a revised submittal would be required. The revised submittal was made April 30, 1971. The loan will provide \$4,600,000 to assist HACU/HAVA in the rehabilitation of existing equipment, procurement of new construction equipment, procurement of construction materials and supplies, furnishing of technical supervisory and training services, and the foreign exchange support costs for the foregoing for a period of approximately two years.

Project Scope

The total estimated cost of the Shamalan Project is \$10,578,000. The project is comprised of four units, i.e., north, west, east, and south units. The gross area to be served water in the north and west units is 16,189 acres. The preliminary estimate of total lands to be served water in the east and south units is 16,529 acres.

10.6 x 10⁶
3.27 x 10⁴
3 x 10²
\$3001

PROGRESS DURING PERIOD APRIL 1, 1972 THROUGH JUNE 30, 1972

1. General.--Construction of the S10.7 Lateral experienced a two week delay while waiting for completion of plans for Reach 3. Otherwise, construction continued normally. As of June 30th Station 4+800 to 9+100 of canal excavation and embankment was basically complete; and Station 9+100 to 9+650 was approximately 70% completed. A detailed account of construction accomplishment for the report period is provided in Section 7.

The fifth HACU American, a Field Superintendent, reported to HACU on June 28th. The fourth HACU TCN, a Cost Engineer/Field Engineer accepted our employment offer; and is scheduled to arrive on job-site mid-July.

Procurement continues to drag. The opening of bids for major new equipment, delayed by USAID/Washington from May 1st, was held at Chah-i-Anjir on June 1, 1972. Recommendations for awards were hand-carried to Kabul on June 4th; but as of the closing date of this report, no award approvals had been received from USAID/Washington. Also as of June 30th, recommended awards for construction materials totalling \$52,800 had not yet been approved by Washington; and our request for an \$80,000 amendment to L/Comm 05, reported as verbally approved prior to June 6th, have been held for six weeks by USAID for "exact dollars and cents figures" of the eight purchases involved. This information was requested by HACU in May and is still not available. USAID/Kabul is attempting to expedite. Since the requested \$80,000 amendment is based upon safe estimates, and cannot in any case exceed our procurement threshold, the risk of adverse impact upon the program versus the value of exact accounting figures appears unwarranted.

TAKEN
CARE OF
— John S.
10/13/72

As of June 6th HACU reported to USAID/Kabul a procurement reserve of \$278,000 after commitments, award recommendations for major new equipment and construction materials, and the pending \$80,000 amendment to L/Comm 05. This reserve was established through deliberate HACU pruning to reduce planned dollar expenditures wherever possible in order to provide for "running parts" which will be vital for sustained operations in the field over the life of the program.

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The need for running parts had not been fully recognized in initial procurement planning. HACU accomplished the reserve in part through (1) detailed re-evaluation of requirements; (2) non-order of mechanics tools in anticipation of receipt of 14 sets of new tools in exprop shipments (which we did not receive); (3) identification of all possible interchangeable items in obsolete inventory; previously not possible for lack of part numbers and cross-reference when inherited from MKA and AID, and a lack of qualified staff who could accomplish this identification; and (4) a planned switch to Afghani purchases of construction materials and reinforcing steel for better procurement dollar utilization. A listing of the dollar savings is presented in Section 6 of this report.

EXCESS
PROPER
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Based upon procurement status as of June 30th, program outlook is as previously reported. Start of rehabilitation of equipment is still scheduled for November 15, 1972, when a balanced supply of replacement parts is expected at Chah-i-Anjir. Major new equipment is expected on job-site not before May 1973. Continued progress in the field during 1972 depends upon HACU's ability to keep present equipment running, and a maintained design lead-time.

Shamalan Procurement Progress %

<u>Item</u>	<u>Completed Prior to Period %</u>	<u>Completed During Period %</u>	<u>Item Complete %</u>	<u>Weighted* % of Total Procurement</u>	<u>Total Procurement Complete %</u>
Rehabilitation Parts	90	0	90	35	31.5
New Equipment	0	0	0	46	0
Materials & Supplies	2	18	20	4	0.8
Excess Property	100	0	100	5	5.0
Running Parts	0	0	0	8.5	0
Emergency Procurement	10	0	10	<u>1.5</u>	<u>0.15</u>
Total				100.0	37.45

* Calculated as a % of total authorized dollar procurement.

2. Engineering Design.--The progress of the design section on S10.7 Lateral continued during this period. The design and specifications for the third reach are 100% complete and issued. Design and specifications for the fourth reach of the S10.7 Lateral were 50% completed. Also preliminary designs for the 150 acre land development are under way. American technicians are on post for design section. Status as of June 30th is as follows:

Shamalan Design Progress %

Item	Completed Prior To Period %	Completed During Period %	Item Complete %	Weighted % of Total Design	Total Design Complete %
Preconstruction Design	100	0	100	15	15
S10.7 Lateral	26	4	30	6	1.8
Land Development 1/	1	1	2	79	1.5
Total				100	18.3

3. Surveys.--Progress on surveys continued during the period. Surveyors received further training on surveying methods and they upgraded their work. The BuRec surveyor technician was not on post during this period. Permeability tests along the S10.7 Lateral continued. A new BuRec technician is on post for the inspection section. Status as of June 30th is as follows:

Shamalan Surveying Progress %

Item	Completed Prior to Period %	Completed During Period %	Item Complete %	Weighted % of Total Surveys	Total Surveys Complete %
Preconstruction Surveys	100	0	100	15	15.0
Kilometer grid system	25	0	25	10	2.5
S10.7 Lateral	82	3	85	5	4.2
Land Development 1/	10	1	11	40	4.4
Servicing Construction	15	1	16	25	4.1
Miscellaneous (R.O.W.)	20	1	21	5	1.0
Total				100	30.6

1/ Includes sublaterals, drains, roads, and land leveling for North, West, East, and South Shamalan units.

IS THIS
A CRITIC
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4. Training program.--A. The HAVA training program at this time consists of on-the-job training which is conducted through assignment of qualified personnel to work with American advisors. It is planned that engineering personnel will receive training out of country in the present year.

B. In addition to counterpart and on-the-job training by American technicians, HACU is proceeding as follows:

(1) English courses oriented toward HACU operational and shop language will be held at Chah-i-Anjir over a planned period of two years. Arrangements have been concluded with John Guyer, Peace Corps Director, for assignment by October of a resident Peace Corps teacher who will teach and/or supervise classes in basic, intermediate, and advanced English. Ten sets of textbooks have been obtained to date. More are being solicited.

(2) A pool of potential candidates for scholarships in the U.S. has been submitted to the USAID Training Officer/Lashkar Gah; and the nine most critical needs of HACU identified. Our objective is combined academic and on-job training in the U.S. in specific disciplines or specialties to fill organizational needs; not degree training. All HACU nominees for scholarships in the U.S. will complete the above courses in intermediate and/or advanced English.

(3) In-house training of accountants will be conducted at Chah-i-Anjir to meet program requirements for additional trained accounting personnel. A re-alignment of responsibilities has resulted in selection of five section heads under the Chief Accountant. These five men are being broadened through participation in all facets of the Chief Accountant's activities. They will then be cross-pollinated; taking over each other's job. Concurrently they will be given in-house training in accounting theory and practical application tailored to HACU's accounting system approved by USAID; plus supplementary classes in RGA regulations. Upon completion of in-house training, they will be considered for further schooling at the Industrial Management Institute in Tehran, American University at Beirut, or in the U.S.

Our greatest need to accomplish this program is programmed textbooks and work kits oriented to construction-related industries. With the help of Mr. Anthony Lanza and Anthony Flores of USAID/Kabul we hope to obtain these training aids in the U.S., and will airlift.

(4) HACU is also formulating training courses for field supervisors and operators in heavy equipment operating techniques, utilizing scale models of excavation equipment and terrain models of the Shamalon project. Catalogues of American model makers have been requested.

UNITED STATES GOVERNMENT

- 4A -

Memorandum

TO : Mr. Lester Samuels, Office Manager, HACU

DATE: August 5, 1972

FROM : *Emory M. Howard*
Emory M. Howard, Head, AAG/HAVR

SUBJECT: Participant Training in Tehran

This is in response to our talk on August 3 concerning my recent trip to Iran. You had asked me to investigate training possibilities for HACU personnel in accounting.

I talked to Mrs. Samimi, USAID/A training manager in Tehran, about practical courses in accounting theory, business and financial management. Mr. Fakhredini, the Iranian responsible for implementing Afghan extension training programs, was present.

They suggested the "Industrial Management Institute" in Tehran as the best possible school for practical training of this kind. They said that the charges were reasonable, there was a good formal classroom training routine and that new classes started periodically. They thought that each session lasted about two months.

Mrs. Samimi said that two HAVA people went through some of these classes about two years ago. I presume they were from Administration.

My time in Tehran was too short to permit going to the Institute for a firsthand investigation. I would suggest, however, that our USAID/A Training Office could secure information describing exactly the course content of the various classes offered. This would help you decide if the classes might be what you are looking for to upgrade HACU accountants.

I also suggest that Mr. Miller, our HAVR Training Officer, pick out the participant files that we may have in reference to Industrial Management Institute. These could be reviewed for whatever information might come to light.

cc: Mr. Levintow
Mr. Miller



5. Project Personnel.--Table No. 1 shows the HAVA/HACU personnel on the roles as of June 30, and the personnel requirements as contained in the Conditions Precedent. Drawing No. 755-167 attached shows the proposed recruitment and reporting schedule for American personnel recruitment. It is noted that due to delayed implementation of the loan, transfer and recruitment of American and TCN personnel has slipped. The last two HACU American mechanics are being recruited for September arrival.

6. Procurement.--A. Loan funds obligated at end of reporting period (April 1 - June 30, 1972) for the procurement of rehabilitation parts and materials, tires and tubes, wire rope, hand tools and shop equipment and AID excess property are as follows:

<u>L/COMM NO.</u>	<u>AMOUNT</u>	<u>OBLIGATED</u>	<u>BALANCE</u>
05	\$1,102,000.00	\$1,027,584.20	\$74,415.80
06	\$ 20,000.00	2,120.35	17,879.65
07	225,000.00	224,511.39	488.61
L/O-1 thru 5	<u>175,952.90</u>	<u>175,952.90</u>	<u>- 0 -</u>
TOTAL -	<u>\$1,522,952.90</u>	<u>\$1,430,168.84</u>	<u>\$92,784.06</u>

(1) The balance of \$92,784.06 is reserved for financing the following schedules for which quotations have been solicited:

<u>L/Comm 05</u> - Sch. 17 - Clark Parts	\$ 5,000.00	
Sch. 19 - Buckeye Parts	5,000.00	
Sch. 21 - Refrigeration Parts	12,000.00	
Sch. 22 - Wire Mesh & Welding Supplies	35,000.00	
Sch. 23 - Tire Repair Supplies	4,000.00	
Sch. 25 - Misc. Steel	<u>4,000.00</u>	
	\$65,000.00	
Reserve for bank charges and possible increase in prices	<u>9,415.80</u>	- \$74,415.80
<u>L/Comm 06</u> - Emergency Procurement		- 17,879.65
<u>L/Comm 07</u> - Reserve for bank charges and for small tools not included in previous awards		- <u>488.61</u>
	TOTAL	- <u>\$92,784.06</u>

(2) The initial shipment of rehab parts and materials from the U.S. ports was made in June, and it is expected that delivery of all parts and materials will be completed by the end of December, 1972.

(3) AID excess property shipments received at Karachi and forwarded to Chaman are as follows:

Let-Order No. 1 - Rollers for Caterpillar Tractors
" " " 2 - " " " "
" " " 5 - 1 each Crane/Shovel, 20-ton
1 each Hydraulic Van Truck
1 each Generator Set, Electric

(4) AID excess property shipments received at HACU:

Let-Order No. 3 - 24 pieces assorted tires and tubes
18 pieces 4-cylinder gasoline and diesel engines.
" " " 4 - 125 packages assorted cargo (Oil, grease, spare parts,
nuts and bolts, hand tools, etc.)
" " " 5 - 1850 pieces assorted pipes, 4", 6", 8" & 12" diameter.

(These items are being tallied in and receiving reports will be made after checking.)

B. Bids for new major equipment and construction supplies were opened on June 1st and 15th, respectively. These were evaluated and recommendation for awards forwarded to AID/Washington, thru USAID/Afghanistan in Kabul, for review and approval. Tentative award total for new major equipment, including 20% spare parts, is \$1,625,000 CIF Karachi. For construction materials and supplies, tentative award amounts to \$58,200.00 CIF Karachi.

HAGU DOLLAR PROCUREMENT SAVINGS TO PROVIDE RESERVE FOR
RUNNING PARTS

<u>SCHEDULE</u>		<u>FROM*</u>	<u>TO</u>	<u>DOLLAR SAVINGS</u>
13	Malsbury Parts	\$ 5,500	\$ 1,200	\$ 4,300
16	IHC Truck Parts	38,900	12,200	26,700
18	Brisco Ditcher Parts	18,000	4,600	13,400
20	Esco Bucket Parts	24,700	7,200	17,500
22	Misc. Parts & Welding Supplies	122,100	64,000	58,100
23	Misc. Parts & Maintenance Supplies	80,500	33,700	46,800
	Construction Materials, Rein- forcing Steel	218,000	19,000	<u>199,000</u>
				<u>\$ 365,800</u>
				TOTAL DOLLAR SAVINGS.....

Accomplished in part by:

1. Non-order of mechanic's tools, counting upon receipt of 14 sets of new tools in excess property shipments.
2. Utilizing all possible interchangeable items in obsolete parts inventory, previously not possible because of lack of part numbers and cross-reference when inherited from MKA and AID.
3. Further detailed review of requirements.
4. Planned switch to Afghani purchases.

* Based upon quotes received.

7. Construction.--Construction of the S10.7 Lateral continued after delay of work for 2 weeks due to non-completion of plans for Reach 3 on time. After receipt of plans construction continued normally. Progress of project construction accomplished during Reporting Period is as follows:

(1) Canal excavation and construction of embankment:

- a. Station 4+800 to 9+100 is basically completed. Gravel surfacing is to be done.
- b. Station 9+100 to 9+650 approximately 70% completed.

(2) Structures and temporary items:
Checks and Check Drops:

- a. Concrete parshal flume Station 1+800
- b. Combination check drop and amt bridge 2+692
- c. Checks 4+550
- d. Checks 7+623 are 98% completed, Touch-up painting remains to be done.
- e. Incline drop 5+328 is 90% completed.

(3) Turnouts:

- a. 13 each 24" Turnouts are basically completed. D/S riprap and touch-up painting is to be done.
- b. 4 each 24" turnouts are approximately 75% completed.

(4) Drain Inlet:

- a. Conc. surface Dr. inlet to S10.7 Lateral constructed.

(5) Temporary Work Accomplished:

- a. Bolan relocated ditch from Station 8+712 to 10+200 was prefilled and excavated.
- b. Lower portion of the above mentioned ditch was also excavated down to Station 10+800 during the reporting period.

(6) Temporary Turnouts:

- a. 24" RCP temporary turnout and culvert for by-pass to the Marja-Bost road installed.
- b. 6 each 12" CMP turnouts were removed from Bolan Old Ditch and re-installed. In Bolan Relocated Ditch during the reporting period.

8. Operations and Maintenance.--Two kilometers of the Bolan Lateral were re-located by HACU to enable normal water deliveries to take place. Constructed facilities required on maintenance and irrigation operations were carried on without any problems.

PROJECT PERSONNEL

June 30, 1972

	Local		U.S.		Third Country		Total		Change This Period
	Present	Proposed	Present	Proposed	Present	Proposed	Present	Proposed	
HAVA Engineering & Technical Department	172	169	4	6	0	3	176	178	+2
HAGU President's Office	9	10	0	0	0	0	9	10	
Administrative Department	295	310	1	1	2	2	298	313	
Technical Department	442	504	4	6	1	5	447	515	+1
Manzel Bagh Branch Office	108	119	0	0	0	0	108	119	
Total - Present Proposed	1026	1112	9	13	3	10	1038	1135	+2

Present - Number of employees at the end of the reporting period.
Proposed - Number shown in Conditions Precedent.

SHAMALAN PROJECT
Loan No. 306-H-012

PROCUREMENT SCHEDULE

Table No. _____
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Reporting Period April 1 - June 30, 1972

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Description	No. of Units	Proposed Specs. Issuance Date	Specs. Issued	Award No. and Date	Promised Delivery Date	Date Shipped	Delivered to Site	Name of Supplier	
<u>PARTS FOR REHABILITATION</u>						(KARACHI)			
1. Tractor/Scraper, Cat. DW-15	9	July 71	Aug. 71	306-105 Feb 72	Oct 72			NC Machinery Co.	
2. Tractor, Cat. D8	5	"	"	"	"			"	
3. Grader, Cat. No. 12	5	"	"	"	"			"	
4. Cable Control Unit, Cat. 27 and 29	5	"	"	"	"			"	
5. Ripper, Cat. MD8	2	"	"	"	"			"	
6. Traxcavator, Cat. 977	1	"	"	"	"			"	
7. Crane, F&H 955A	3	"	"	306-101 Feb 72	Sept 72			Greg Industrial Corp	
8. Crane, Northwest 6	2	"	"	306-110 March 72	Dec 72			Northwest Engineering	
9. Crane, Northwest 80D	3	"	"	"	"			" "	
10. Crane, Northwest 25	2	"	"	"	"			" "	
11. Engine, M-Diesel 6 & 21	5	"	"	306-102 Feb 72	July 72			Intl. AC Company	
12. Engine, Cummins NH, HR	3	"	"	306-103 Feb 72	June 72	4/20/72		Pacific Diesel Co.	
13. Steam Cleaner, Malsbury	1	"	"	306-121 June 72	Nov 72			Malsbary Mfg co	

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PROCUREMENT SCHEDULE

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Reporting Period April 1 - June 30, 1972

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Description	No. of Units	Proposed Specs. Issuance Date	Specs. Issued	Award No. and Date	Promised Delivery Date	Date Shipped	Delivered to Site	Name of Supplier	
14. Truck-Tractor Peterbilt 381	3	July 71	Aug. 71	306-104 Feb 72	(KARACHI) July 72	6/10/72		Nosa, Inc.	
15. Truck, Dart 200/456	1	"	"	306-109 March 72	Aug 72			Greg Industrial Corp	
16. Truck, IHC F1800D	4	"	"	306-114 April 72	Aug 72			IH Export Co.	
17. Forklift, Clark M-6024	4	"	"	Waiting for quotation from supplier.					
18. Ditcher, Brisco M46-Std	3	"	"	306-113 April 72	Oct 72	6/30/72		Impex Corp.	
19. Ditcher, Buckeye 160	1	"	"	Waiting for quotation from supplier.					
20. Bucket, Dragline, Esco	5	"	"	306-111 April 72	Aug 72			Esco International	
21. Refrigeration Equipment	Lot	"	"	306-119 June 72	Sept 72			Greg Industrial Corp	
22. Misc. Spare Parts and Welding Supplies	Lot	"	"	306-108 March 72	Aug 72			New World Research	
23. Misc. Spare Parts and Maintenance Supplies	Lot	"	"	306-106 March 72	July 72			Greg Industrial Corp	
24. Pneumatic tires & tubes	Lot	Nov. 71		306-115 May 72	Dec 72			General Tire Intl.	
25. Misc. Hardware	Lot	"	Aug. 71	306-107 Feb 72	Aug 72			New World Research	
26. Mechanics Shop Tools and Equipment	Lot	"	Dec. 71	306-116 May 72	Dec 72			Algeda Intl.	
				306-120 (June 72)	Jan 73			American Intl.	

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Table No. _____
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Reporting Period April 1 - June 30, 1972

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Description	No. of Units	Proposed Specs. Issuance Date	Specs. Issued	Award No. and Date	Promised Delivery Date	Date Shipped	Delivered to Site	Name of Supplier	
27. Machine Shop Tools and Equipment	Lot	Nov. 71	Dec 71	306-116 May 72	(KARACHI) Dec 72			Algeda International	
28. Wire Rope	Lot	"	"	306-118 May 72	Dec 72			New World Research	
29. Batteries, Automotive	Lot	"	DELETED - AVAILABLE FROM AID EXCESS PROPERTY						
30. Lubricants	Lot	"	(SEE GROUP XI)						
31. Bearings	Lot	"	Dec 71	306-117 May 72	Dec 72			Nosa, Inc.	
32. Automotive Shop Equip.	Lot	"	"	306-118 May 72	Dec 72			New World Research	
CONSTRUCTION MATERIALS AND SUPPLIES									
1. Reinforcing Steel	Lot	Dec. 71	March 72	Recommendation for award forwarded to AID/Washington.					
2. Structural Steel	Lot	"		Requirements under study.					
3. Well Casing	Lot	"		DELETED - AVAILABLE FROM AID EXCESS PROPERTY					
4. Form Supplies	Lot	"	March 72	Recommendation for award forwarded to AID/Washington.					
5. Concrete Materials	Lot	"	"	*	*	*	*	*	
6. Paint, Metal	Lot	"	"	*	*	*	*	*	
7. Acetone, Carbide and Caustic Soda	Lot	"	"	*	*	*	*	*	

(for oxyacetylene Manufacturing)

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Reporting Period April 1 - June 30, 1972

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Description	No. of Units	Proposed Specs. Issuance Date	Specs. Issued	Award No. and Date	Promised Delivery Date	Date Shipped	Delivered to Site	Name of Supplier	
NEW MAJOR EQUIPMENT Group I						(KARACHI)			
1. Scrapers, Self-propelled	4	Dec. 71	Dec 71						
2. Scrapers, Self-loading	2	"	"		*	*	*	*	*
3. Tractors, Crawler-type	4	"	"		*	*	*	*	*
4. Shovel-loader, 2½ cu yd	1	"	"		*	*	*	*	*
Group II									
1. Dumpers, 10 cu yd	6	"	"		*	*	*	*	*
2. Flat-bed Trucks, 6-ton	3	"	"		*	*	*	*	*
3. Tank Truck, fuel	2	"	"		*	*	*	*	*
4. Tractor for 75-T Trailer	1	"	"		*	*	*	*	*
5. Transit Mixer, 5 cu yd	2	"	"		*	*	*	*	*
Group III									
1. Flat-bed Truck, 2½-ton	4	"	"		*	*	*	*	*
2. Truck, Maintenance	1	"	"		TRANSFERRED TO GROUP X.				

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Reporting Period April 1 - June 30, 1972

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Description	No. of Units	Proposed Specs. Issuance Date	Specs. Issued	Award No. and Date	Promised Delivery Date	Date Shipped	Delivered to Site	Name of Supplier	
3. Pickup, 3/4-ton, 6-man cab	5	Dec. 71	Dec 71		(KARACHI)				
4. Pickup, 3/4-ton, std.	10	"	"						
5. CHASSIS, Lubrication Service Truck	2	"	"						
Group IV									
1. Welding Machine, shop	1	"	"						
2. Welding Machine, portable	2	"	"						
Group V									
1. Air Compressor, 250 cfm	1	"		DELETED	AVAILABLE FROM AID EXCESS PROPERTY				
2. Air Compressor, 365 cfm	1	"		"	"	"	"	"	"
3. Air Compressor, 500 cfm	1	"	"						
4. Vibrators, concrete	6	"	"						
Group VI									
1. Dragline Bucket: 3/4 cu yd - heavy	1	"	"						
2. 1 1/2 cu yd - heavy	1	"	"						

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Reporting Period April 1 - June 30, 1972

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Description	No. of Units	Proposed Specs Issuance Date	Specs. Issued	Award No. and Date	Promised Delivery Date	Date Shipped	Delivered to Site	Name of Supplier	
3. 1½ cu yd - Medium	2	Dec 71	Dec 71		(KARACHI)				
4. 2 cu yd - Heavy	1	"	"		*	*	*	*	*
5. 2 cu yd - Medium	2	"	"		*	*	*	*	*
Group VII									
1. Water Pump, 6" - Diesel	3	"		DELETED	- AVAILABLE FROM AID EXCESS PROPERTY				
2. Water Pump, 4" - Diesel	3	"		"	"	"	"	"	"
Group VIII									
1. Elec. Generator, 30 KW	1	"		"	"	"	"	"	"
Group IX									
1. Mobile Truck Crane, 30-Ton	2	"		"	"	"	"	"	"
Group X									
1. Drag Scraper	2	"	Dec 71						
2. Lubricator Unit	1	"	"		*	*	*	*	*
3. Concrete Mixer, 16 cu ft	3	"	"		*	*	*	*	*

SHAMALAN PROJECT
Loan No. 306-H-012

PROCUREMENT SCHEDULE

Table No. _____
Page 7 of 7

Reporting Period April 1 - June 30, 1972

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Description	No. of Units	Proposed Specs. Issuance Date	Specs. Issued	Award No. and Date	Promised Delivery Date	Date Shipped	Delivered to Site	Name of Supplier	
4. Batching Plant, 6 cu yd	1	Dec 71	Dec 71		(KARACHI)			Recommendation for award forwarded to AID/Washington.	
5. Steam Cleaner	1	"	"		*	*	*	*	
6. Well Drilling Machine	1	"	"	DELETED - WILL REHABILITATE EXISTING EQUIPMENT					
Ind. Tractor w/Front End									
7. Loader & Backhoe	1	"	"	DELETED - NO LONGER NEEDED					
8. Trailer, Low-Bed, 75-Ton	1	"	"					Recommendation for award forwarded to AID/Washington.	
9. Maint. Truck w/Crane & Bed	1	"	"		*	*	*	*	
10. Electric Generator, 5 KW	3	"	"		*	*	*	*	
11. Water Pump, 8", Diesel	1	"	"	DELETED - NO LONGER NEEDED					
Group XI									
1. Lubricants	1 Lot	Nov 71	"					Recommendation for award forwarded to AID/Washington.	
***** NOTHING FOLLOWS *****									

SHAMALAN PROJECT
Loan No. 306-H-012

BEST AVAILABLE COPY

June 30, 1972

Table No. 3

QUARTERLY COST REPORT
Fourth Quarter of Fiscal Year 1972

	Fiscal Year 1972 Cost -- Dollars					Total Project Cost		
	Estimate FY	This Quarter	FY to Date	Balance To Complete	Probable FY Cost	Estimate	To Date	Balance
Personnel, American	111,950	58,855	111,950	0	111,950	1,109,000	111,950	997,050
New Equipment (delivered) Ordered (memo. acct.)	0 (124,670)	0 (0)	0 (124,670)	0 (0)	0 (124,670)	1,750,000	0	1,750,000
Rehab. Parts (delivered) Ordered (memo. acct.)	0 (1,289,340)	0 (3,000)	0 (1,289,340)	0 (0)	0 (1,289,340)	1,666,638	0	1,666,638
Materials & Supplies (del.) Ordered (memo. acct.)	16,162 (16,162)	14,194 (0)	14,194 (16,162)	1,968 (16,162)	14,194 (16,162)	74,362	14,194	60,168
Total-Dollar Cost	128,112	73,049	126,144	1,968	126,144	4,600,000	126,144	4,473,856
	Fiscal Year 1972 Cost --Afghanis							
HACU Contracts	17,419,060	6,983,843	17,419,060	0	17,419,060	424,855,137	17,419,060	397,436,077
HAVA Project Costs	3,200,000	800,000	3,200,000	0	3,200,000	15,000,000	3,200,000	11,800,000
General Investigations	0	0	0	0	0	18,494,863	18,494,863	0
Total-Afghani Cost	20,619,060	7,783,843	20,619,060	0	20,619,060	448,350,000	39,113,923	409,236,077
Dollar Equivalent (Afs. 75 = \$1.00)	274,920	103,784	274,920	0	274,920	5,978,000	521,519	5,456,481
Total Cost--Dollars	403,032	176,833	401,064	1,968	401,064	10,578,000	647,663	9,930,337

Equipment Status Report--Number

Equipment, New (delivered)	0	0	0	0	0	71*	0	71
Equipment, Excess Property (del.)	0	0	0	0	0	30*	0	30
Equipment, Rehabilitated	0	0	0	0	0	55	0	55

4111 pieces of equipment are to be purchased. It is estimated that 30 pieces will be available from excess property.

CONTRACT SUMMARY (CONSTRUCTION)

ESTIMATE OF WORK BY, & ADDRESS:
 (Include the project's location here)

Reach 1 - Modification to Champlain Canal Structure 9852 and
 Constructing Reachway, Embankment and Structures
 for Lakes 1, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1I, 1J, 1K, 1L, 1M, 1N, 1O, 1P, 1Q, 1R, 1S, 1T, 1U, 1V, 1W, 1X, 1Y, 1Z, 2A, 2B, 2C, 2D, 2E, 2F, 2G, 2H, 2I, 2J, 2K, 2L, 2M, 2N, 2O, 2P, 2Q, 2R, 2S, 2T, 2U, 2V, 2W, 2X, 2Y, 2Z, 3A, 3B, 3C, 3D, 3E, 3F, 3G, 3H, 3I, 3J, 3K, 3L, 3M, 3N, 3O, 3P, 3Q, 3R, 3S, 3T, 3U, 3V, 3W, 3X, 3Y, 3Z, 4A, 4B, 4C, 4D, 4E, 4F, 4G, 4H, 4I, 4J, 4K, 4L, 4M, 4N, 4O, 4P, 4Q, 4R, 4S, 4T, 4U, 4V, 4W, 4X, 4Y, 4Z, 5A, 5B, 5C, 5D, 5E, 5F, 5G, 5H, 5I, 5J, 5K, 5L, 5M, 5N, 5O, 5P, 5Q, 5R, 5S, 5T, 5U, 5V, 5W, 5X, 5Y, 5Z, 6A, 6B, 6C, 6D, 6E, 6F, 6G, 6H, 6I, 6J, 6K, 6L, 6M, 6N, 6O, 6P, 6Q, 6R, 6S, 6T, 6U, 6V, 6W, 6X, 6Y, 6Z, 7A, 7B, 7C, 7D, 7E, 7F, 7G, 7H, 7I, 7J, 7K, 7L, 7M, 7N, 7O, 7P, 7Q, 7R, 7S, 7T, 7U, 7V, 7W, 7X, 7Y, 7Z, 8A, 8B, 8C, 8D, 8E, 8F, 8G, 8H, 8I, 8J, 8K, 8L, 8M, 8N, 8O, 8P, 8Q, 8R, 8S, 8T, 8U, 8V, 8W, 8X, 8Y, 8Z, 9A, 9B, 9C, 9D, 9E, 9F, 9G, 9H, 9I, 9J, 9K, 9L, 9M, 9N, 9O, 9P, 9Q, 9R, 9S, 9T, 9U, 9V, 9W, 9X, 9Y, 9Z, 10A, 10B, 10C, 10D, 10E, 10F, 10G, 10H, 10I, 10J, 10K, 10L, 10M, 10N, 10O, 10P, 10Q, 10R, 10S, 10T, 10U, 10V, 10W, 10X, 10Y, 10Z, 11A, 11B, 11C, 11D, 11E, 11F, 11G, 11H, 11I, 11J, 11K, 11L, 11M, 11N, 11O, 11P, 11Q, 11R, 11S, 11T, 11U, 11V, 11W, 11X, 11Y, 11Z, 12A, 12B, 12C, 12D, 12E, 12F, 12G, 12H, 12I, 12J, 12K, 12L, 12M, 12N, 12O, 12P, 12Q, 12R, 12S, 12T, 12U, 12V, 12W, 12X, 12Y, 12Z, 13A, 13B, 13C, 13D, 13E, 13F, 13G, 13H, 13I, 13J, 13K, 13L, 13M, 13N, 13O, 13P, 13Q, 13R, 13S, 13T, 13U, 13V, 13W, 13X, 13Y, 13Z, 14A, 14B, 14C, 14D, 14E, 14F, 14G, 14H, 14I, 14J, 14K, 14L, 14M, 14N, 14O, 14P, 14Q, 14R, 14S, 14T, 14U, 14V, 14W, 14X, 14Y, 14Z, 15A, 15B, 15C, 15D, 15E, 15F, 15G, 15H, 15I, 15J, 15K, 15L, 15M, 15N, 15O, 15P, 15Q, 15R, 15S, 15T, 15U, 15V, 15W, 15X, 15Y, 15Z, 16A, 16B, 16C, 16D, 16E, 16F, 16G, 16H, 16I, 16J, 16K, 16L, 16M, 16N, 16O, 16P, 16Q, 16R, 16S, 16T, 16U, 16V, 16W, 16X, 16Y, 16Z, 17A, 17B, 17C, 17D, 17E, 17F, 17G, 17H, 17I, 17J, 17K, 17L, 17M, 17N, 17O, 17P, 17Q, 17R, 17S, 17T, 17U, 17V, 17W, 17X, 17Y, 17Z, 18A, 18B, 18C, 18D, 18E, 18F, 18G, 18H, 18I, 18J, 18K, 18L, 18M, 18N, 18O, 18P, 18Q, 18R, 18S, 18T, 18U, 18V, 18W, 18X, 18Y, 18Z, 19A, 19B, 19C, 19D, 19E, 19F, 19G, 19H, 19I, 19J, 19K, 19L, 19M, 19N, 19O, 19P, 19Q, 19R, 19S, 19T, 19U, 19V, 19W, 19X, 19Y, 19Z, 20A, 20B, 20C, 20D, 20E, 20F, 20G, 20H, 20I, 20J, 20K, 20L, 20M, 20N, 20O, 20P, 20Q, 20R, 20S, 20T, 20U, 20V, 20W, 20X, 20Y, 20Z, 21A, 21B, 21C, 21D, 21E, 21F, 21G, 21H, 21I, 21J, 21K, 21L, 21M, 21N, 21O, 21P, 21Q, 21R, 21S, 21T, 21U, 21V, 21W, 21X, 21Y, 21Z, 22A, 22B, 22C, 22D, 22E, 22F, 22G, 22H, 22I, 22J, 22K, 22L, 22M, 22N, 22O, 22P, 22Q, 22R, 22S, 22T, 22U, 22V, 22W, 22X, 22Y, 22Z, 23A, 23B, 23C, 23D, 23E, 23F, 23G, 23H, 23I, 23J, 23K, 23L, 23M, 23N, 23O, 23P, 23Q, 23R, 23S, 23T, 23U, 23V, 23W, 23X, 23Y, 23Z, 24A, 24B, 24C, 24D, 24E, 24F, 24G, 24H, 24I, 24J, 24K, 24L, 24M, 24N, 24O, 24P, 24Q, 24R, 24S, 24T, 24U, 24V, 24W, 24X, 24Y, 24Z, 25A, 25B, 25C, 25D, 25E, 25F, 25G, 25H, 25I, 25J, 25K, 25L, 25M, 25N, 25O, 25P, 25Q, 25R, 25S, 25T, 25U, 25V, 25W, 25X, 25Y, 25Z, 26A, 26B, 26C, 26D, 26E, 26F, 26G, 26H, 26I, 26J, 26K, 26L, 26M, 26N, 26O, 26P, 26Q, 26R, 26S, 26T, 26U, 26V, 26W, 26X, 26Y, 26Z, 27A, 27B, 27C, 27D, 27E, 27F, 27G, 27H, 27I, 27J, 27K, 27L, 27M, 27N, 27O, 27P, 27Q, 27R, 27S, 27T, 27U, 27V, 27W, 27X, 27Y, 27Z, 28A, 28B, 28C, 28D, 28E, 28F, 28G, 28H, 28I, 28J, 28K, 28L, 28M, 28N, 28O, 28P, 28Q, 28R, 28S, 28T, 28U, 28V, 28W, 28X, 28Y, 28Z, 29A, 29B, 29C, 29D, 29E, 29F, 29G, 29H, 29I, 29J, 29K, 29L, 29M, 29N, 29O, 29P, 29Q, 29R, 29S, 29T, 29U, 29V, 29W, 29X, 29Y, 29Z, 30A, 30B, 30C, 30D, 30E, 30F, 30G, 30H, 30I, 30J, 30K, 30L, 30M, 30N, 30O, 30P, 30Q, 30R, 30S, 30T, 30U, 30V, 30W, 30X, 30Y, 30Z, 31A, 31B, 31C, 31D, 31E, 31F, 31G, 31H, 31I, 31J, 31K, 31L, 31M, 31N, 31O, 31P, 31Q, 31R, 31S, 31T, 31U, 31V, 31W, 31X, 31Y, 31Z, 32A, 32B, 32C, 32D, 32E, 32F, 32G, 32H, 32I, 32J, 32K, 32L, 32M, 32N, 32O, 32P, 32Q, 32R, 32S, 32T, 32U, 32V, 32W, 32X, 32Y, 32Z, 33A, 33B, 33C, 33D, 33E, 33F, 33G, 33H, 33I, 33J, 33K, 33L, 33M, 33N, 33O, 33P, 33Q, 33R, 33S, 33T, 33U, 33V, 33W, 33X, 33Y, 33Z, 34A, 34B, 34C, 34D, 34E, 34F, 34G, 34H, 34I, 34J, 34K, 34L, 34M, 34N, 34O, 34P, 34Q, 34R, 34S, 34T, 34U, 34V, 34W, 34X, 34Y, 34Z, 35A, 35B, 35C, 35D, 35E, 35F, 35G, 35H, 35I, 35J, 35K, 35L, 35M, 35N, 35O, 35P, 35Q, 35R, 35S, 35T, 35U, 35V, 35W, 35X, 35Y, 35Z, 36A, 36B, 36C, 36D, 36E, 36F, 36G, 36H, 36I, 36J, 36K, 36L, 36M, 36N, 36O, 36P, 36Q, 36R, 36S, 36T, 36U, 36V, 36W, 36X, 36Y, 36Z, 37A, 37B, 37C, 37D, 37E, 37F, 37G, 37H, 37I, 37J, 37K, 37L, 37M, 37N, 37O, 37P, 37Q, 37R, 37S, 37T, 37U, 37V, 37W, 37X, 37Y, 37Z, 38A, 38B, 38C, 38D, 38E, 38F, 38G, 38H, 38I, 38J, 38K, 38L, 38M, 38N, 38O, 38P, 38Q, 38R, 38S, 38T, 38U, 38V, 38W, 38X, 38Y, 38Z, 39A, 39B, 39C, 39D, 39E, 39F, 39G, 39H, 39I, 39J, 39K, 39L, 39M, 39N, 39O, 39P, 39Q, 39R, 39S, 39T, 39U, 39V, 39W, 39X, 39Y, 39Z, 40A, 40B, 40C, 40D, 40E, 40F, 40G, 40H, 40I, 40J, 40K, 40L, 40M, 40N, 40O, 40P, 40Q, 40R, 40S, 40T, 40U, 40V, 40W, 40X, 40Y, 40Z, 41A, 41B, 41C, 41D, 41E, 41F, 41G, 41H, 41I, 41J, 41K, 41L, 41M, 41N, 41O, 41P, 41Q, 41R, 41S, 41T, 41U, 41V, 41W, 41X, 41Y, 41Z, 42A, 42B, 42C, 42D, 42E, 42F, 42G, 42H, 42I, 42J, 42K, 42L, 42M, 42N, 42O, 42P, 42Q, 42R, 42S, 42T, 42U, 42V, 42W, 42X, 42Y, 42Z, 43A, 43B, 43C, 43D, 43E, 43F, 43G, 43H, 43I, 43J, 43K, 43L, 43M, 43N, 43O, 43P, 43Q, 43R, 43S, 43T, 43U, 43V, 43W, 43X, 43Y, 43Z, 44A, 44B, 44C, 44D, 44E, 44F, 44G, 44H, 44I, 44J, 44K, 44L, 44M, 44N, 44O, 44P, 44Q, 44R, 44S, 44T, 44U, 44V, 44W, 44X, 44Y, 44Z, 45A, 45B, 45C, 45D, 45E, 45F, 45G, 45H, 45I, 45J, 45K, 45L, 45M, 45N, 45O, 45P, 45Q, 45R, 45S, 45T, 45U, 45V, 45W, 45X, 45Y, 45Z, 46A, 46B, 46C, 46D, 46E, 46F, 46G, 46H, 46I, 46J, 46K, 46L, 46M, 46N, 46O, 46P, 46Q, 46R, 46S, 46T, 46U, 46V, 46W, 46X, 46Y, 46Z, 47A, 47B, 47C, 47D, 47E, 47F, 47G, 47H, 47I, 47J, 47K, 47L, 47M, 47N, 47O, 47P, 47Q, 47R, 47S, 47T, 47U, 47V, 47W, 47X, 47Y, 47Z, 48A, 48B, 48C, 48D, 48E, 48F, 48G, 48H, 48I, 48J, 48K, 48L, 48M, 48N, 48O, 48P, 48Q, 48R, 48S, 48T, 48U, 48V, 48W, 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79R, 79S, 79T, 79U, 79V, 79W, 79X, 79Y, 79Z, 80A, 80B, 80C, 80D, 80E, 80F, 80G, 80H, 80I, 80J, 80K, 80L, 80M, 80N, 80O, 80P, 80Q, 80R, 80S, 80T, 80U, 80V, 80W, 80X, 80Y, 80Z, 81A, 81B, 81C, 81D, 81E, 81F, 81G, 81H, 81I, 81J, 81K, 81L, 81M, 81N, 81O, 81P, 81Q, 81R, 81S, 81T, 81U, 81V, 81W, 81X, 81Y, 81Z, 82A, 82B, 82C, 82D, 82E, 82F, 82G, 82H, 82I, 82J, 82K, 82L, 82M, 82N, 82O, 82P, 82Q, 82R, 82S, 82T, 82U, 82V, 82W, 82X, 82Y, 82Z, 83A, 83B, 83C, 83D, 83E, 83F, 83G, 83H, 83I, 83J, 83K, 83L, 83M, 83N, 83O, 83P, 83Q, 83R, 83S, 83T, 83U, 83V, 83W, 83X, 83Y, 83Z, 84A, 84B, 84C, 84D, 84E, 84F, 84G, 84H, 84I, 84J, 84K, 84L, 84M, 84N, 84O, 84P, 84Q, 84R, 84S, 84T, 84U, 84V, 84W, 84X, 84Y, 84Z, 85A, 85B, 85C, 85D, 85E, 85F, 85G, 85H, 85I, 85J, 85K, 85L, 85M, 85N, 85O, 85P, 85Q, 85R, 85S, 85T, 85U, 85V, 85W, 85X, 85Y, 85Z, 86A, 86B, 86C, 86D, 86E, 86F, 86G, 86H, 86I, 86J, 86K, 86L, 86M, 86N, 86O, 86P, 86Q, 86R, 86S, 86T, 86U, 86V, 86W, 86X, 86Y, 86Z, 87A, 87B, 87C, 87D, 87E, 87F, 87G, 87H, 87I, 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CONTRACT SUMMARY (CONSTRUCTION)

Specs. Nos. 20 and 23 Quarter ending June 30, 1972

ITEM NO	DESCRIPTION OF WORK	UNIT	QUANTITY	QUANTITY TO DATE	UNIT PRICE (A.P.S.)	QUARTERLY	EARNING (A.P.S.)
			QUARTER	TO DATE	(A.P.S.)	TO DATE	TO DATE
REACH 1							
1	Common Excavation	M3	4,118	70,519	38.00	156,522.00	2,080,862.00
2	Excavated from Borrow	M3	3,511	22,009	38.00	131,558.00	896,312.00
3	Rock Excavation	M3	--	--	--	--	--
4	Gravel	M3/Ka	535	5,810	8.00	4,288.00	46,120.00
5	Compacting Subbase	M3	7,275	36,863	27.00	193,725.00	993,681.00
6	Excavation for Structures	M3	776	3,515	68.00	68,288.00	309,581.00
7	Backfill Along Structures	M3	(698)	1,527	44.00	(30,621.00)	67,188.00
8	Compacting Backfill Along Structures	M3	819	1,961	75.00	69,750.00	117,300.00
9	Gravel Subbase	M3	36	378	88.00	2,880.00	30,088.00
10	Concrete in Columns	M3	133	531	3,880.00	1,067,400.00	2,029,200.00
11	Furnish & Place Reinforcement Bars	Mbs	5,915	65,312	27.00	111,315.00	1,761,231.00
12	W.M. to Manholes	LS	--	100%	120,000.00	--	120,000.00
13	Miscellaneous Items	lbs	1,298	1,026	65.00	129,878.00	196,630.00
14	Furnish & Install 21" Sluice Gate with complete operating well	Ea.	15	18	25,000.00	375,000.00	450,000.00
15	Furnish & Install 36" Sluice Gate with complete operating well	Ea.	--	--	55,000.00	--	--
16	Furnish & Install 24" Sluice Gate	LS	81,118	253,02	1,700.00	113,106.00	395,131.00
17	Furnish & Install 36" Sluice Gate	LS	--	35-36	2,950.00	--	101,371.00
18	Concrete 21" Concrete Pipe Collar	Ea.	11	21	3,250.00	35,750.00	73,000.00
19	Concrete 36" Concrete Pipe Collar	Ea.	--	2	5,500.00	--	11,000.00
20	Concrete & Compact Earth Lining	M3	--	1,839	66.00	--	121,371.00
21	Refrill Above Earth Lining	M3	--	--	10.00	--	--
22	Fabricate & Install 15" M. Metal Radial Gates	Ea.	--	3	200,000.00	--	600,000.00
23	Fabricate & Install 15" M. Metal Sluice Gate	Ea.	--	--	14,200.00	--	--
24	Fabricate & Install 36" Sluice Gate	Ea.	--	--	6,000.00	--	--
25	Fabricate & Install 24" Sluice Gate	Ea.	--	--	16,300.00	--	--
26	Install Temporary Work at Bashaam March	LS	--	100%	5,600.00	--	5,600.00
27	Furnish & Install Type B Rubber Water Stop	LS	870	16,59	320.00	7,134.00	13,603.00
28	Furnish & Install 4" Elastic Filler	M2	58	12.75	106.00	232.00	5,100.00
29	Rubber	M3	102.69	399.07	700.00	71,883.00	272,319.00

CONTRACT SUMMARY (CONSTRUCTION)

* Extra Work, Awaiting negotiated prices. Specs. Nos. 20 and 23 Quarter ending June 30, 1972

ITEM NO	NATURE OF WORK	UNIT	QUANTITY		UNIT B (D) (Mrs.)	EARNING (A/S.)	
			QUARTER	TO DATE		QUARTER	TO DATE
30	Dewatering:						
	a) 2" Pump	Hrs.	5.25	616.75	110.00	--	71,112.50
	b) 4" Pump	Hrs.	5.25	1,015.25	185.00	971.25	198,921.25
	c) 6" Pump	Hrs.	--	139.50	250.00	--	34,875.00
	Grouted Rebar	M3	--	10.80			
	6" Ø NRCY	ln	--	21.96			
	SUB-TOTAL EARNINGS SPECS. NO. 20)					2,001,002.25	11,590,751.25
	REACH 2						
1	Common Excavation	M3	25,161.17	18,066.17	38.80	956,236.16	1,520,231.16
2	Excavation for Bottom	M3	39,756.00	39,756.00	36.00	1,519,728.00	1,519,728.00
3	Rock Excavation	M3	--	--	90.00	--	--
4	Overhaul	M3/ln	20,025.11	20,025.11	8.00	160,201.12	160,201.12
5	Compaction Subsoilment	M3	28,153.15	35,798.15	27.00	768,213.15	966,558.15
6	Excavation for Structures	M3	915.21	1,351.21	88.00	80,511.12	119,173.12
7	Backfill for Structures	M3	99.31	99.31	111.00	11,016.96	11,370.96
8	Compact and Pack in About Structures	M3	116.28	371.28	65.00	7,562.20	27,316.00
9	Gravel Subsoil	M3	9.00	9.00	80.00	720.00	720.00
10	Concrete for Structures	M3	134.20	134.20	3,900.00	523,380.00	523,380.00
11	Furnish & Place Reinforcement Bars	lbs	23,556.98	23,556.98	29.00	683,152.12	683,152.12
12	Furnish & Install 1" Elastic Filter	M2	1.71	1.71	100.00	696.00	696.00
13	Miscellaneous Welds	lbs	322.83	322.83	65.00	20,983.95	20,983.95
14	Dewatering:						
	a) 2" Pump	Hrs.	98.00	98.00	110.00	10,780.00	10,780.00
	b) 4" Pump	Hrs.	113.00	113.00	185.00	20,905.00	20,905.00
	c) 6" Pump	Hrs.	--	--	250.00	--	--
15	Furnish & Install 21" Slide Gate with concrete Pipe meterwell	Ea.	2	2	25,000.00	50,000.00	50,000.00
16	Furnish & Lay 21" RCY	ln	25.62	25.62	1,700.00	43,551.60	43,551.60
17	Furnish & Lay 36" RCY	ln	--	--	2,950.00	--	--
18	Construct 21" Concrete Pipe Collar	Ea.	3	3	3,250.00	9,750.00	9,750.00
19	Construct 36" Concrete Pipe Collar	Ea.	--	--	5,500.00	--	--
20	Constr. & Compact Earth Embank	M3	1,286.75	1,286.75	66.00	84,925.50	84,925.50
21	Install Above Earth lining	M3	191.50	191.50	38.00	7,277.00	7,277.00
22	Fabricate & Install Jacketing Type 3-gate lifting Device	Ea.	--	--	16,300.00	--	--
23	Fabricate and install 1.5 m. by						

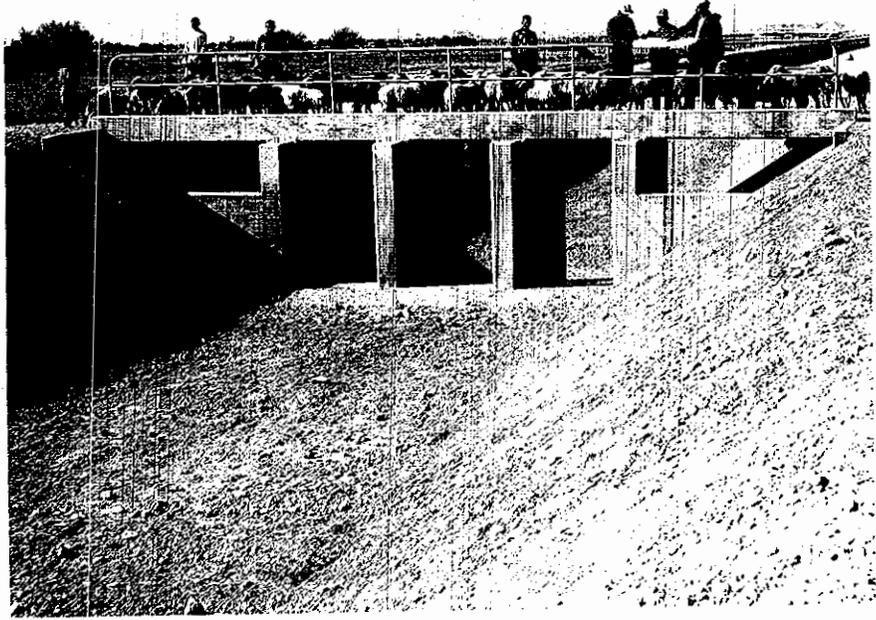
TRACT SUMMARY (CONSTRUCTION)

Specs. No.s 20 and 23 quarter ending June 30, 1972

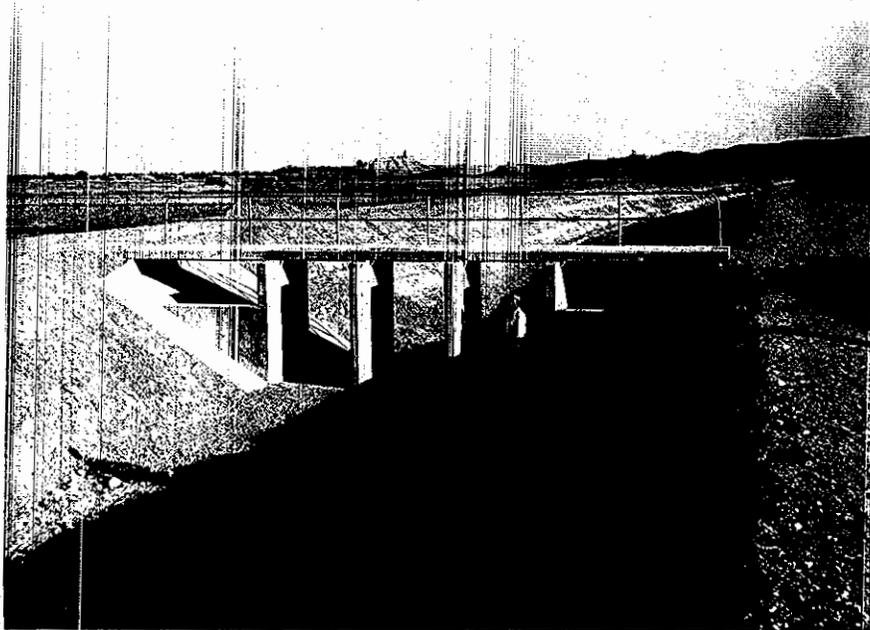
Extra Work, Awarding negotiated
prices

ITEM NO	NATURE OF WORK	UNIT	QUANTITY	QUARTER TO DATE	UNIT PRICE (MS.)	QUARTER TO DATE	EARNING (MS.)
21	145 m. steel wire cable Furnish suitable type of robust wire	kg.	3,100	30.50	11,200.00	33,520.00	374,520.00
25	Hydrop 36" Ø 6" Ø 12" Ø 12" Ø 36" Ø Gravel placed under 24" Ø	kg. kg. kg. kg. kg. kg.	36.03 7 12.20 85.18 12.01 11.15 11.50	30.03 7 12.20 85.18 12.01 11.15 11.50	700.00	25,221.00	56,921.00
	SUB-TOTAL (ITEMS 20, 23)					1,779,812.93	5,828,306.60
	TRAC 3 (NO BILLS FOR)						
	Incentive, Gravel Replacement		2,041.36	2.041.36			
			5,352.24	5,352.24			
	Gravel excavation		12,212.50	12,212.50			
	Overhaul		6,450.10	6,450.10			
	Polan Beach excavation		556.77	556.77			
	Polan Beach Excavation		4,683.13	4,683.13			
	Maria Road excavation grades over		2,859.21	2,859.21			
	Maria Road grade excav		167.18	167.18			
	SUB-TOTAL (ITEMS 20, 23)						
	GRAND TOTAL (ITEMS)					6,985,812.93	17,419,066.23

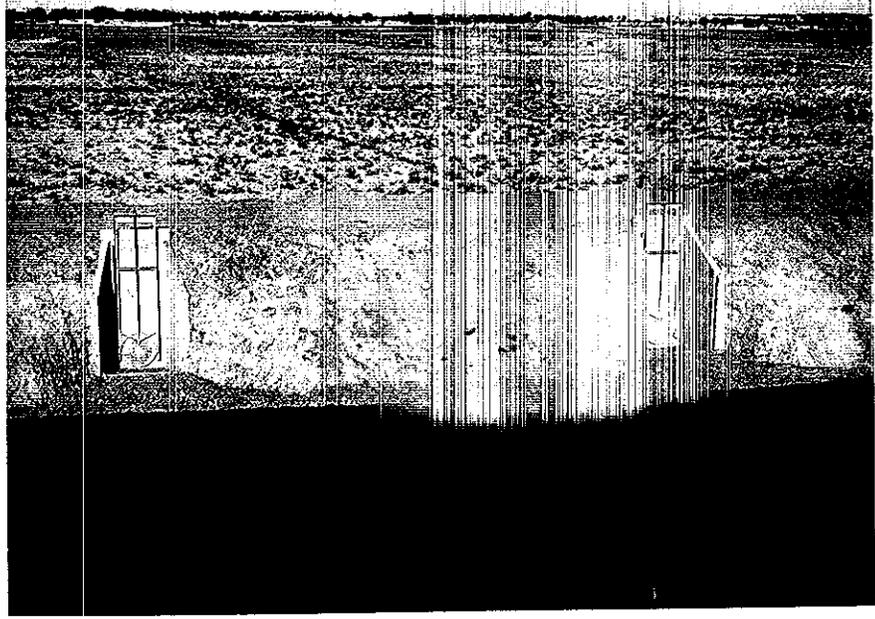
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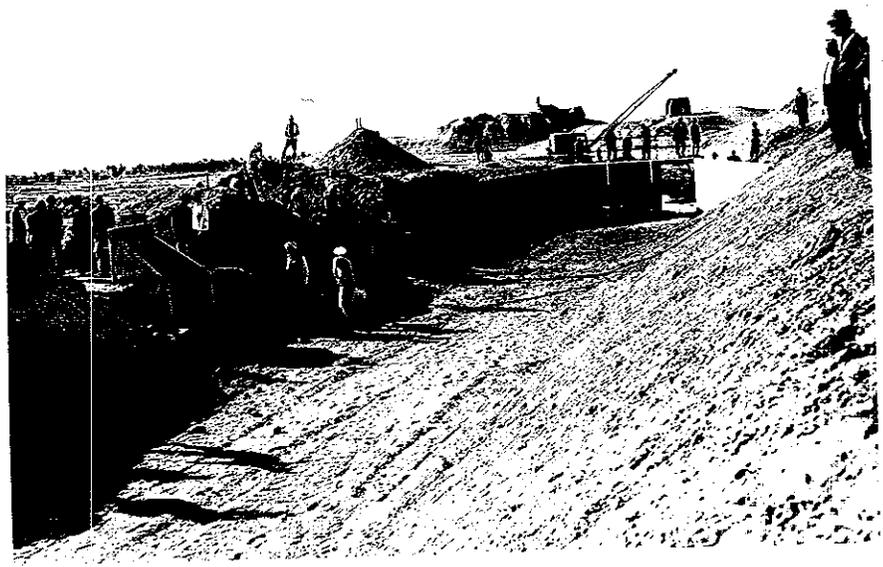
Comb. Check Drop and 4 Meter Bridge Station 2+692



Check Structure at Station 4+550



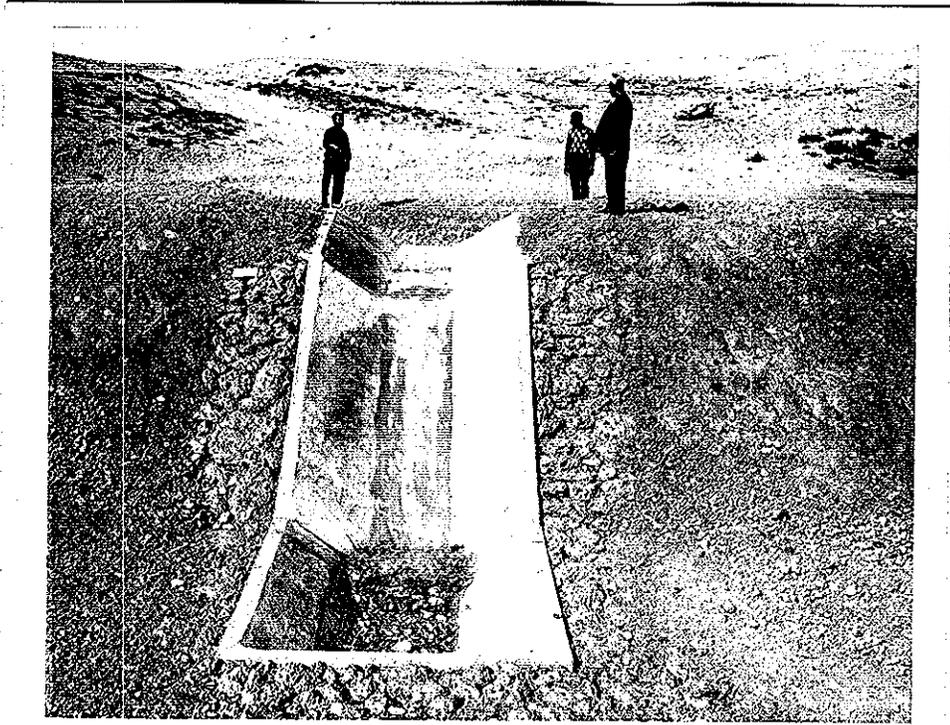
Constructed turnouts at Station 4+783 and 4+793



Upstream side of incline drop 5+328 and 2 turnouts under construction

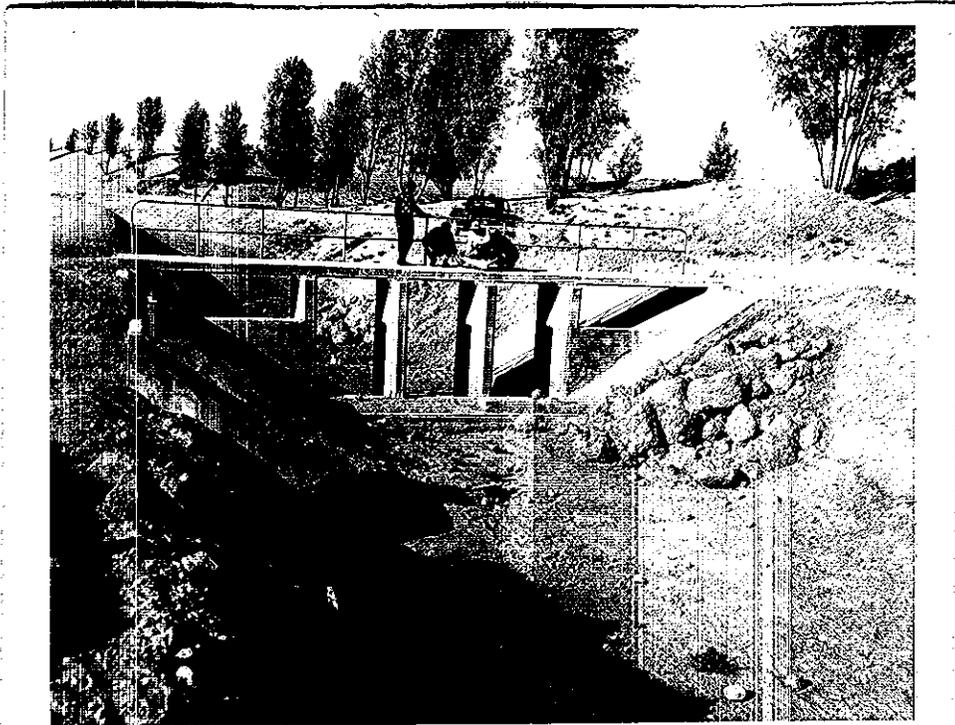


Looking upstream to incline drop 5+328



Surface Drain Inlet Station 5+707

25



Check Structure Station 7+623 Looking downstream



Check Structure at Station 7+623 looking upstream



Completed turnout construction at Station 8+175



Marja Road Crossing Station 8+689



Marja Road Crossing Station 8+689