

PD-AAR-854

IAN-41487

MONTHLY PROGRESS REPORT
MAY, 1981

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Monthly Progress Report
 Arab Potash Project
 May, 1981

1.0 SUMMARY

1.1 Project Milestones	<u>Scheduled Date</u>	<u>Actual Date</u>
Contract Signing	5 Nov 77	5 Nov 77
Review of Feasibility Report	26 Jan 78	26 Jan 78
Advertise for Refinery Equipment	15 Feb 78	1 Feb 78
Presentation to Lenders - Amman Town Site Contract Award	11 Apr 78 1 May 78	11 Apr 78 4 May 78
Approval of Solar Pan Construction Tender Documents	-	2 June 78
Townsite Contractor starts Mobilizing	-	7 June 78
Solar Pan Construction Tender Inquiry Issued	1 Aug 78	28 June 78
Solar Pan Contract Bids due	4 Oct 78	4 Oct 78
Advertise Power Plant Contract	14 Oct 78	16 Oct 78
Definitive Estimate Due	31 Dec 78	1 May 79
Solar Pan Contract Award	1 Jan 79	13 Jan 79
Solar Pan Contractor starts mobilizing	1 Feb 79	15 Jan 79
Approval of Refinery Mechanical Construction Tenders (Pre-Qualification)	1 Mar 79	12 Apr 79
Approval of Power Plant Construction Tenders (Pre-Qualification)	23 Feb 79	20 Mar 79
Refinery Mechanical Tender Inquiry Issued	5 Apr 79	10 May 79
Power Plant Contract Bids Due	7 July 79	7 July 79
Refinery Contract Bids Due	15 Aug 79	1 Oct 79
Refinery Contract Award	15 Dec 79	17 Jan 80
Power Plant Contract Award	15 Dec 79	11 Jan 80

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1.0 SUMMARY - Continued

1.1 Project Milestones - Continued

	<u>Original Scheduled Date</u>	<u>Current Forecast Date</u>	<u>Actual Date</u>
Refinery Contractor Letter of Intent	15 Dec. 79		17 Jan 80
Refinery Contractor Starts Construction	1 Apr. 80		15 May 80
Power Plant Contractor Starts Construction	1 May 80		1 Oct 80
Screening & Compaction Erection Contract Award	30 Oct. 80		26 Jan 81
Power Plant Mechanically Complete	1 Dec. 81	17 Jan 82	
Screening & Compaction Erection Mechanically Complete	1 Dec. 81	17 Jan 82	
Refinery Complete	17 Jan. 82	17 Mar 82	
<u>Township</u>			
Housing - Lot 1	1 Feb 79		15 Jul 79
Housing - Lot 2	1 Jul 79		15 Feb 79
Housing - Lot 3	1 Feb 80		30 Apr 81
Housing - Lot 4	1 Jun 80	15 Apr 81	
<u>Solar Pans (Partial completion for pan filling)</u>			
Salt Pan	1 Feb 81		20 Mar 81
PC-1	1 Mar 81	1 Dec 81	
PC-2	1 Apr 81		18 Mar 81
C-1	1 May 80		8 Apr 80
C-2	1 Apr 81		2 Feb 81
C-3	1 Apr 82	1 Apr 82	
<u>Start-up Schedule</u>			
<u>Start Carnallite Deposition</u>			
C-1	1 Aug 81	1 Dec 81	
C-2	1 Aug 82	1 Oct 82	
C-3	1 Aug 83	1 Oct 83	
<u>Product Test Runs*</u>			
75% Test Run	1 Feb 83	1 Jun 83	
100% Test Run	1 Nov 83	1 Jan 84	

*These dates based on assuming start of carnallite precipitation in accordance with above schedule.

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1.3 Status of Project

JIL

Reports from the field indicate continued slippage by Voest-Alpine. Concern is also being expressed at delayed access to the dikes. Access is important so that Voest-Alpine can complete all dike piping in time for plant shakedown. JIL are presently endeavouring to come up with proposals to recover the lost time. Meetings were held in Dublin during May with Voest-Alpine/Balfour Beatty to discuss problem areas and the screening and compaction plant. Construction of this section of the refinery is underway.

Brown Boveri continued to make good progress on the steam and power plant during May - ahead of schedule.

Work continued on schedule for the secondary temporary brine supply pipeline.

The operation manual for the refinery was completed and sent to site for review. Bid analysis for the workboats was completed and a recommendation was sent to APC. Truck bids were opened and four bids are being analysed.

The overall status of the Refinery Mechanical Works was 39% at month end.

AGP

At month end the progress of work by Sir Alexander Gibb and Partners in terms of man months expenditure was approximately as follows:-

Ratio of man months expenditure to end of April, 1981, 79%
to total man months expenditure programmed.

Estimated ratio of man months expenditure to end of
April, 1981, to total man months
expenditure programmed. 80%

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2.0 ENGINEERING AND DESIGN

2.1 JIL - DUBLIN

2.1.1 Project Engineering

The operation manual for the Refinery was completed and copies were sent to JIL (Jordan).

The technical section of the truck bids (IFB 49-16) was opened and analysis commenced. Queries on bids were sent to all bidders during May.

The bid analysis report on the workboats (IFB 49-23) was completed and sent to APC with a recommendation.

Drawings and data on contractor supplied equipment (Contract 10) continued to be reviewed and were sent back to VA with comments. Queries from V.A. on the Screening and Compaction Plant were answered.

Drawings from BBC were also received and sent back with comments.

Work commenced on writing a specification for a process water chlorinator. (Specification No. 40-4).

Manouverability testing of the prototype harvester was carried out in Jordan.

2.1.2 Instrumentation Design

Status of instrumentations remained unchanged from April report during the period.

2.1.3 Piping and Mechanical Design

Meetings were held during the month with the mechanical contractor to clarify the piping runs on the Krupp drawings. During the meetings some mechanical clarifications were also discussed. Some of the remaining vendor packages were reviewed and approved.

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2.0 ENGINEERING AND DESIGN - Continued

Model

Work continued on the models during the month. The BBC Power Plant Model is now almost complete. The model will be complete with line tagging, hand railing, minor piping and equipment fixing is finished.

Krupp Models: A few weeks work remains on these models. Work started on the main feed conveyor board. Work continued on the compaction plant board, equipment setting and the location of chutes and hoppers were fixed. Shipping Bins Board is now complete except the utility piping which has yet to be installed.

2.1.4 Civil/Structural Design

Review of Krupp drawings on Screening and Compaction plant and on E Station 3 were carried out. Responded to on-going site queries.

Visited site during mid month. Investigated dryer stack design and reviewed corrective design measures.

2.1.5 Electrical Design

Work continued on the selection of settings for the protection relays for the Switchgear and Motor Control Centres.

An electrical engineer visited site to discuss the electrical design and engineering with the construction and operations staff.

A meeting was held on site with A.G.P. to discuss the 33kv electrical network and the subject of standby electrical power using the Township Generators.

2.1.6 Building Services Design

Checking was carried out on fire protection drawings. Queries were also resolved on foam/water monitors, sprinkler heads and related design details.

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2.0 ENGINEERING AND DESIGN - Continued

2.1.7 Architectural Design

Regular telex query/reply service maintained with V.A. B.B. and BKG.

Rainwater system to Administration Theatre elaborated and proposals approved.

Joinery details for Administration building studied and returned approved as noted.

Roomborough M.S. handrail details studied and returned approved as noted.

Unilock Tenon partition layouts studied and returned approved as noted.

Meetings held with V.A. and B.B. at Dublin office.

Passenger Life for Administration Building inspected by Mr. T. Cowper of Architectural Dept. and approved.

Architectural drawings for 'E' houses 3 and 4 commenced.

Problems with A.C.M.E. doors to Maintenance Building and Service Buildings resolved.

All subcontract drawings submitted, reviewed, marked up and returned for attention/information.

2.2 AGP - Reading

2.2.1 Contract No. 2 - Permanent Township

Nothing to report.

2.2.2 Contract No. 3 - Solar Evaporation System

Civil Works

Nothing to report.

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2.0 ENGINEERING AND DESIGN - Continued

Mechanical and electrical Works

Study of and commenting upon Wimpey's and their subcontractors drawings of the additional temporary brine supply continued during the month.

Study of and commenting upon Wimpey's final draft Operating and Maintenance manual continued.

Contract No. 4 - Moveable Furniture

Nothing to report.

Contract No. 6 - Additional Buildings

Further working drawings issued to the Contractor during the month. Study and approval of Contractor's details and supplies commenced.

Contract No. 7 - Hospital Equipment

Invitations to Tender issued during the month.

3.0 Carnallite Harvesting

Some experimental work was carried out with the original harvester at site. A lump sum contract was negotiated with Rahco for a short term test programme.

4.0 JIL - Contracts

Contract No. 10 with Voest Alpine

Work continued on clarifying various contractual points with V.A. JIL request V.A. to submit all sub-contractors drawings for formal approval - which have not previously been submitted by V.A.

Contract No. 11 with Brown Boveri

Issued Addendum No. 3 to Contract in the amount at DM. 93,437. This covered the fire protection at the steelwork in the Process Building, the additional Junction Boxes and the credit for Fuel Pumps (DM. 7,732).

Contract No. 10 Addendum 4 with Voest Alpine

Held a co-ordination conference in Dublin with V.A., B.B. and B.K. to review the status of all drawings and specifications issued for construction.

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4.0 JIL - CONTRACTS - Continued

This meeting followed much confusion on the part at V.A. with regard to drawing transmittals and JIL urged V.A. to attend same as required to do by the Conditions of Contract.

5.0 PROCUREMENT - JIL

The following Purchase Orders are complete and 100% payment has been made:

01-1	Centrifugal Pumps	- Mather & Platt
01-2	Rotary Pumps	- Mirrlees
01-3	Fire Pumps	- Aurora
01-5	Slurry Booster Pumps	- Simon Warman
04-1	Thickener Mechanism	- Esmil
05-1	Agitators	- Philadelphia Gear
18-1	Cooling Towers	- Marley International
21-2	Centrifuges	- Bird Machine Company
21-4	Centrifuges	- Bird Machine Company
23-3	Tails Hydrocyclones	- Krebs
25-1	Product Dryer	- Allis Chalmers
29-1	Wet Mechanical Handling	- Precismeca
29-2	Screening & Compaction	- Krupp
34-1	Truck Scales	- Pfister
40-6	Condensate Pump Set	- Worthington-Simpson
58-2	Maintenance Building	- Ward Brothers

Status of Remaining Purchase Order

01-4	Process Slurry Pumps	- Worthington Canada
	Original Order complete. Pumps No. 13-01, 531, 532, 541, 542 on board the 'Roland Oceanic' - sailed 5th April, 1981 and due Aqaba early May, 1981. Last two pumps scheduled for testing late August, 1981 and Shipping mid-September.	

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5.0 Procurement - JIL

- 11-2 Plate Heat Exchangers - Alfa Laval
Supply of missing plates (5% of total) now end of 1981.
Remainder of plates scheduled for shipping mid-June.
- 16-1 Crystallizer System - Whiting Fermont
This Purchase Order is complete. Final 10% payment has
not been made.
- 23-2 Product Hydrocyclones - Dorr Oliver
Delivery is scheduled for late May, 1981.
- 64-15 Process Instruments - Foxboro
3rd part shipment made from Germany mid April final
shipment from UK scheduled for mid July 1981.
- 64-44 Telemetering - Telectron
Testing is scheduled for mid June, 1981 and delivery by
airfreight to Amman on July 17th 1981.
- 64-45 Control Valves - Fisher Controls
Five (5) valves outstanding, 3 being re-cast and 2 extra
scheduled for delivery November, 1981.
- 65-4 Electrical Switchgear - Westinghouse
Final shipment left Baltimore on board the 'Benjamin
Harrison' on May 29th 1981 and due Aqaba 16th June 1981.

* = A.P.C.

** = SELLER

PURCHASE ORDER STATUS REPORT

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ATTACHMENT NO. 6

PURCHASE ORDER NO.	NAME OF SELLER	DATE P.O. SENT TO A.P.C. FOR SIGNING	DATE SIGNED P.O. RET'D FROM A.P.C. & ISSUED TO SELLER	DATE COUNTER-SIGNED COPY OF P.O. REC'D FROM SELLER	SIGNED COPY OF P.O. SENT TO A.P.C.	GUARANTEE'S			REMARKS
						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-01-1 Amendment 2	Mather & Platt Ltd. Mather & Platt Ltd.	11.6.1979 Signed in Dublin office 11.01.1980.	12.6.1979 ** mailed 16.1.'80	30.7.1979 20.5.1980	1.8.1979 23.5.'80				Mailed
08-1875-01-2 Amendment 2	Mirrlees Pumps Ltd. Mirrlees Pumps Ltd.	21.4.1979 Signed in Dublin office 11.01.1980	2.5.1979 ** mailed 16.1.'80	24.7.1979 30.1.1980	1.8.1979 1.2.1980				By Courier
08-1875-01-3 Amendment 3	Aurora Pump	Signed in Dublin Office April 1979 12.3.81	20.4.1979 20.3.1981	30.4.1979	29.6.1979				

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-01-4	Worthington (Canada)	11.6.1979	12.6.1979	6.7.1979	1.8.1979				
Amendment 2	Worthington (Canada)		18.6.1979	9.11.1979	13.11.1979				Courier to Seller
Amendment 3	Worthington (Canada)	Signed in Dublin Office 11.01.1980	** mailed 16.1.'80	10.3.1980	13. 3.1980				Courier to APC
Amendment 4	Worthington (Canada)	30.6.1980 Courier	* 14.7.1980 ** 15.7.1980	25.9.1980	26.9.1980				
Amendment 5	Worthington (Canada)	13.8.1980 Courier.	* 9.9.1980 ** Courier 9/9/80	25.9.1980	26.9.1980				Courier

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-01-5	Simon-Warman Ltd.	Hand Carried to APC by MMF 11.11.1979	22.11.1979 Ret'd 23.11.1979 Seller	10.12.1979	11.12.'79				
Amendment 2	Simon-Warman Ltd.	Dublin Office Signed, 11.01.1980	** mailed 16.1.'80	25.1.1980	28.1.1980				Mailed to APC

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-04-1	Esmil Envirotech Ltd.	Signed in Dublin Office April 1979	20.4.1979	24.5.1979	1.8.1979				
Amendment 2	Esmil Envirotech Ltd.	Signed in Dublin Office 11.01.1980	** mailed 16.1.'80	25.1.1980	28.1.1980				Mailed to APC
Amendment 3	Esmil Envirotech Ltd.	30.6.1980 Courier	* 14.7.1980 ** 15.7.1980	23.7.1980	29.7.1980				
Amendment 4		13.5.1981	25.5.1981						

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-05-1	Philadelphia Gear Middle East Corp.	3.5.1979	9.5.1979	31.5.1979	29.6.1979				
Amendment 2	Philadelphia Gear	Signed in Dublin Office 11.01.'80	** mailed 16.1.'80	28.2.1980	29.2.1980 Courier				
08-1875-11-2	Alfa-Laval AB	21.4.1979	2.5.1979	24.5.1979	29.6.1979				
08-1875-16-1	Whiting-Fermont	11.6.1979	12.6.1979	9.8.1979	23.8.1979				
Amendment 2	Whiting-Fermont	8.8.1979	5.9.1979	12.9.1979	7.9.1979				
Amendment 3	Whiting-Fermont	Signed in Dublin Office 11.01.'80	** mailed 16.1.'80	28.01.1980	1.02.1980				By Courier
Amendment 4	Whiting-Fermont	12.5.1980 Courier	4.6.1980	11.6.1980	13.6.1980				Courier

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-18-1	Marley International Inc.	Signed in Dublin Office April 1979	20.4.1979	24.5.1979	1.8.1979				
Amendment 3	Marley Inter. Inc.	Hand Carried to APC by MMF 11/11/'79	* 4.12.1979 Courier 5.12.1979	25.2.1980	25.2.1980 Courier				Letter of Credit enclosed with purchase order
08-1875-21-2	Bird Machine Co.	3.5.1979	9.5.1979	August '79	1.8.1979				
Amendment 3	Bird Machine Co.	Signed in Dublin Office 11.01.'80	** mailed 16.1.'80	25.2.1980	25.2.1980 Courier				

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						PERFORANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-21-4	Bird Machine Co.	3.5.1979	9.5.1979	August '79	1.8.'79				
Amendment 3	Bird Machine Co.	21.12.1979 Courier	* 9.1.1980 10.1.1980	29.01.1980	29.01.1980				By Courier
Amendment 4	Bird Machine Co.	Signed in Dublin office 11.01.'80	** mailed 16.1.'80	4.02.1980	8.02.1980				By Courier
08-1875-22-1	Eimco Process Mach. Division.	3.5.1979	9.5.1979	18.6.'79	1.8.'79				
Amendment 3	Eimco Process Mach.	Signed in Dublin office 11.01.'80	** mailed 16.1.'80	8.4.1980	10.4.1980 Courier				
08-1875-23-2	Dorr-Oliver Inc.	Signed in Dublin Office April 1979	20.4.1979	14.5.'79	1.8.'79				
Amendment 3	Dorr-Oliver Inc.	26.10.1979	15.11.1979	20.12.1979	21.12.1979 Courier				

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-25-1	Allis-Chalmers	15.6.1979	20.6.1979	3.10.1979	5.10.'79				Hand Carried to A.P.C. by M.E.
Amendment 2	Allis-Chalmers	3.10.1979	16.10.1979		5.10.'79				Telex from APC (courier to Seller)
3	Allis-Chalmers	11.3.1980 Courier	* 25.3.1980 ** 27.3.1980	15.4.1980	25.4.1980				
4	Allis-Chalmers	25.3.1980 Courier	* 8.4.1980 ** 9.4.1980	15.4.1980	25.4.1980				
5	" "	12.3.81	** 20.3.1981	20.3.1981	24.1981 by Courier				
08-1875-29-1	Precismeca S.A.	9.7.1979	25.7.1979	21.9.'79	25.9.'79				Hand carried to A.P.C.
Amendment 2	Precismeca S.A.	5.9.'80 Courier	* 25.9.1980 ** 26.9.1980 Courier.	14.10.'80	17.10.80 Courier				
08-1875-29-2	Fried Krupp Gmbh (Draft Purchase Order)		By courier to Seller 20.12.1979						
08-1875-29-2	Fried Krupp Gmbh	25.01.1980 Courier	* Returned 12/2/80 ** Courier 14/2/80	20.2.1980	21.2.1980 Courier				
Amendment 2	Fried Krupp Gmbh	12.5.1980 Courier	** 29.5.1980	23.6.1980	27.6.1980				

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 ** - SELLER

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-0875-29-2 Amendment 3	Fried Krupp GMBH	22nd July 1980	* 9.9.1980 ** Hand Carried 9.9.1980 (F.K.)	15.9.1980	16.9.1980 Courier				

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* = A.P.C.

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ATTACHMENT NO. 8.6

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-34-1	Pfister Waagen Gmbh	11.6.1979	12.6.1979	25.9.1979	27.9.'79				
Amendment 2	Pfister Waagen Gmbh	9.7.1979	25.7.1979	25.9.1979	27.9.'79				
Amendment 3	Pfister Waagen Gmbh	Signed in Dublin Office 11.01.'80	** mailed 16.1.'80	4.02.1980	8.02.1980				By Courier
08-1875-39-1	Rahco Disc Inc.	Signed in Washington Sept.13th.'79	Issued to Seller at meeting in Washington	13.9.1979	20.9.'79				
Amendment 1	Rahco Disc Inc.	12.9.1980 Courier.	***		Amendments 1 & 2 sent to APC by courier 14.5.1981				***Amendments 1 & 2 re-issued to AK-2nd April 1981 by courier to be re-signed
Amendment 2	Rahco Disc Inc.	7.11.1980 Hand Carried (MMF)	5.12.1980 Amendts., 1 & 2 rec'd from APC issued to Vendor by 8.10.1979	13.4.81	12.10.1979				
08-1875-39-3	GPE Teo Ltd.	Hand carried to APC by DG		12.10.1979	18.10.'79				
Amendment 2	GPE Teo Ltd.	Signed in Dublin Office 11.01.'80	** mailed 16.1.'80	31.01.1980	1.02.'80				By Courier

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* = APC
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ATTACHMENT NO. B. 6

PURCHASE ORDER NO.	NAME OF SELLER	DATE P.O. SENT TO A.P.C. FOR SIGNING	DATE SIGNED P.O. RET'D FROM A.P.C. & ISSUED TO SELLER	DATE COUNTER-SIGNED COPY OF P.O. REC'D. FROM SELLER	SIGNED COPY OF P.O. SENT TO A.P.C.	GUARANTEE'S			REMARKS
						PERFORMANCE GUARANTEE FOR 10*	BANK GUARANTEE FOR 15*	BANK GUARANTEE FOR 25*	
08-1875-39-4	Rahco Disc. Inc.	Signed in Amman Jordan 18.1.1981 4.3.1981	Signed in Amman 18.1.1981 P.O. to Seller By Hand (KB) 26.2.1981	- 11.3.1981	27.1.1981 already issued				
08-1875-39-4-1	Rahco DISC Inc., Amendment No. 1 Amendment No. 2	2.4.1981	13.4.1981 by courier to Rahco same date. Signed in AMMAN by both parties retd. 2.6.81						
08-1875-39-5	Rahco Disc. Inc.	7th May, 1981 by Courier p.o. re-issued - hand carried by Rahco personnel to APC-15.5.1981	Ret'd by courier 13th May, 1981- issued to Rahco 14th May 1981 at Merrion House.						

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* = A.P.C.
 ** = SELLER

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-40-6	Worthington-Simpson Ltd.	3.5.1979	9.5.1979	18.5.1979	29.6.1979				
08-1875-58-2	Ward Brothers (Sherburn) Ltd.	9.7.1979	25.7.1979	8.8.1979	23.8.1979				
Amendment 2	Ward Brothers.	Signed in Dublin Office 11.01.'80	** mailed 16.1.'80	25.01.1980	28.01.1980				Mailed to APC
Amendment 3	Ward Brothers	5.11.1980 Courier	* 12.1.1981 ** 13.1.1981	2.2.1981	3.2.1981				
08-1875-64-15	Foxboro-Yoxall Ltd.	22.6.1979	(1) 25.7.1979 (2) 20.8.1979	21.9.1979	21.9.1979				
08-1875-64-15 Amendment 2	Foxboro-Yoxall Ltd.,	14.11.80 Courier	* 23.11.1980 **25.11.1980	1.12.1980	1.12.1980 Courier				
Amendment 3	Foxboro-Yoxall Ltd.,	15.5.1981 by courier	Hand Carried 25.5.1981						

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 ** = SELLER

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-64-45	Fisher Controls Ltd.	9.7.1979	25.7.1979	2.01.1980					
Amendment 3	Fisher Controls	By Courier 13.11.1979	* 4.12.1979 Courier 4.12.79		2.01.'80 Courier				
Amendment 4	Fisher Controls	Signed in Dublin Office 11.01.'80	** mailed 16.1.'80						
Amendment 5	Fisher Controls	24.4.81 by Courier	Issued to seller 4.4.1981	11th May '81	14.5.1981 by courier				
08-1875-65-4	Westinghouse Electric	By Courier 13.11.1979	* 4.12.1979 Courier 5.12.1979	10.1.1980	11.1.1980				
08-1875-65-4	Westinghouse Electric	Signed in Dublin Office 10.1.1980	Signed in Dublin Office 10.1.80 **	10.1.1980	11.1.1980				
Amendment 3	Westinghouse Electric	By Courier 27.3.1980	* 9.4.1980 ** 11.4.1980	22.4.1981	25.4.1981				
Amendment 4	Westinghouse Electric	By Courier 26.9.1980	* 13.10.1980 **14.10.1980 Courier	22.4.1981	25.4.1981				
Amendment 5	Westinghouse Electric	25.11.1980 Courier	* 8.12.1980 ** 12.12.1980	22.4.1981	25.4.1981				

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* = A.P.C.
 ** = SELLER

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ATTACHMENT NO. 8 6

PURCHASE ORDER NO.	NAME OF SELLER	DATE P.O. SENT TO A.P.C. FOR SIGNING	DATE SIGNED P.O. RET'D FROM A.P.C. & ISSUED TO SELLER	DATE COUNTER- SIGNED COPY OF P.O. REC'D FROM SELLER	SIGNED COPY OF P.O. SENT TO A.P.C.	GUARANTEE'S			REMARKS
						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-23-3	Krebs Engineers Int.	30.4.'80 by Courier	* 14.5.1980 ** 15.5.1980 By Courier	27.5.1980	28.6.1980				
08-1875-64-44	Telectron Instrumentation Systems Ltd.	9.5.1980 Courier.	* 23rd. May 1980 ** 29th. May 1980	17th. June '80	18th. June 80				

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						PERFORMANCE GUARANTEE FOR 10%	BANK GUARANTEE FOR 15%	BANK GUARANTEE FOR 25%	
08-1875-64- 65	A. Macklow-Smith	issued to APC 7th May 1981 by courier	received from APC 13th May 1981, issued to Macklow Smith 14.5.1981						

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J. McCall
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JACOBS INTERNATIONAL LIMITED

To: Mr. Ali Khasawneh,
 Chairman/General Manager,
 The Arab Potash Company Ltd.,
 P.O. Box 1470,
 Amman,
 JORDAN.

From: Mr. M. M. Frimodig,
 Vice President &
 Deputy Project Director,
 Jacobs International Ltd.,
 Merrion House, Merrion Rd.,
 Dublin 4, IRELAND.

On Project No. 08-1875

attached are FOUR enclosures TWO prints of each. We release them for
 construction _____ purchase _____ approval _____ fabrication _____
 design _____ your file _____ information XXXX action _____

Enclosure	Rev	Description	Date	Pages
2		MONTHLY PROGRESS REPORT MAY, 1981		
		MONTHLY PROGRESS REPORT JUNE, 1981		

Remarks/Special Instructions:

<u>Copies to:</u>	<u>Client</u>	<u>Jacobs</u>	<u>Other Parties</u>
	AK(2)	JDB/JMcLa MMF MJE/KB JC/RJB SLK/AF Psd. H. Ritchie *FILE	IBRD AID KFAED Arab Fund Lybian Fund AID - Amman AGP