

PD AAR -851

ISM: 41484

MONTHLY PROGRESS REPORT

MARCH 1981

TABLE OF CONTENTS

Volume 1

1.0	<u>SUMMARY</u>	<u>PAGE NO</u>
1.1	Project Milestones	2
1.2	Overall Project Schedule	4
1.3	Status of Project	5
2.0	<u>ENGINEERING AND DESIGN</u>	
2.1	JIL -- Dublin	5
2.2	ACP - Reading	9
3.0	<u>CARNALLITE HARVESTING</u>	10
4.0	<u>CONTRACTS - JIL</u>	9
5.0	<u>PROCUREMENT - JIL</u>	
6.0	<u>ATTACHMENTS</u>	
6.1	Purchase Order Status Report - JIL	

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

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 80
Power Plant Mechanically Complete	1 Dec. 81	17 Jan 82	
Refinery Contractor Mechanically Complete	1 Dec. 81	17 Jan 82	
Screening & Compaction Erection Mechanically Complete	1 Dec. 81	17 Jan 82	

Township

Housing - Lot 1	1 Feb 79		15 Jul 79
Housing - Lot 2	1 Jul 79		15 Feb 80
Housing - Lot 3	1 Feb 80	15 Apr 81	
Housing - Lot 4	1 Jun 80	15 Apr 81	

Solar Pans (Partial completion for pan filling)

Salt Pan	1 Feb 81		20 Jan 81
PC-1	1 Mar 81	1 Mar 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	

Start-up Schedule

Start Carnallite Deposition

C-1	1 Aug 81	1 Dec 81	
C-2	1 Aug 82	1 Oct 82	
C-3	1 Aug 83	1 Oct 83	

Product Test Runs*

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.

1.3 Status of Project

JIL

Work commenced on the technical analysis of workboat bids (IFB 49-23) at month end and it was projected that to complete the analyses involved, a further two weeks work were required in order to have the commercial bid opening before the end of April.

The operating manual for the Refinery and the Screening and Compaction plant continued during the month.

Drawings from main contractors and subcontractors continued to be reviewed and comments forwarded to concerned parties.

Engineering work on second temporary brine supply line and Product Haulage trucks continued at month end.

AGP

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

Ratio of man months expenditure to end of February, 1981 to total man months expenditure programmed.	76%
--	-----

Estimated ratio of man months expenditure to end of March, 1981 to total man months expenditure programmed.	78%
---	-----

2.0 Engineering and Design

2.1 JIL - Dublin

2.1.1 Project Engineering

Bid analysis commenced on the workboats (IFB 49-23). Two bids were received from Damen (Holland) and Arklow Ship Design (Ireland). Bidders queries on the trucks (IFB 49-16) were answered.

Drawings and data from Fried-Krupp (P.O. 29-2) were expedited and received during the month. These were then transmitted to Voest-Alpine for use in planning the erection of the Screening and Compaction plant. Installation, operating and maintenance manuals received from Fried-Krupp were checked out and in some cases there was insufficient information. Fried-Krupp are still chasing their sub-vendors for this information.

2.0 Engineering and Design - Continued

2.1 JIL - Dublin - Continued

2.1.1 Project Engineering - Continued

Work continues on the operating manual for the refinery and screening and compaction plant.

Drawings from BBC on the Steam and Power Plant continued to be reviewed during March. An inspection trip was made to view all the equipment associated with the water treatment plant.

2.1.2 Instrumentation

All electrical/instrumentation interconnection drawings are now complete. Local panel layout drawings were received from VA/BK for our approval. Steam and power plant package vendor drawings were reviewed. Telemetering package is experiencing some delay and further discussions are to follow. Foxboro package 64-15 is now 95% complete as is Fisher package 64-45. Fishers are looking into delays on the completion of the order.

2.1.3 Piping and mechanical Design

The launder drawings were reviewed and approved for preliminary fabrication during the month.

The main effort however, was a review of all piping, pre fabrication and, erection on site, during the month.

Power Plant Model

Work continued on the power plant model water treatment section. Vessel, tank, pumps, and piping were fixed and some tagging made. The remaining area's will remain on hold until final drawings are received from BBC.

Screening and Compaction Model

Work continued on this model during the month. Equipment was positioned in the structure, hoppers, chutes, tanks, and platforming. The shipping bins were completed and the shipping structure finalized. Preliminary work commenced on the main feed conveyor.

2.0 Engineering and Design - Continued

2.1 JIL - Dublin - Continued

2.1.4 Civil/Structural Design

As well as the usual task of reviewing the contractor's construction drawings and providing a back-up service for our site staff, a major emphasis was placed on revising the Fried-Krupp foundation drawings so as to remove a number of anomalies. These revised drawings were submitted to Krupps for their approval.

A number of our own drawings were revised mainly to reflect changes necessitated by the Screening and Compaction system and by the revised haulage truck flow system. A four day visit was made to site: the standard of workmanship on the civil and structural work was, in general, found to be satisfactory.

2.1.5 Electrical Design

53 drawings were up-dated and re-issued during the month.

39 of these drawings (including main single line diagrams, 380 volt schematic, 330 volt interconnection diagrams and instrumentation interconnection diagrams) were revised to include terminal numbers, and cubicle numbers obtained from Westinghouse and Foxboro construction issue drawings.

7 drawings were revised with information added for the purpose of greater clarification.

7 drawings were revised with minor changes. These changes relate to vendor data received too late for including in the Lump Sum Addendum No. 3 Agreement.

2.1.6 Building Services Design

No major work done during the month. Hours were mainly expended on vendor print checking and answering telexes relating to the fire protection design.

2.1.7 Architectural Design

1. Various colour and finishes confirmed to Balfour Beatty.
2. Window and door details Admin. building confirmed to Krittall-McKinney. Drawings marked up.
3. Drawing and details Admin. building partitions confirmed to Unilock Tenon. Special ironmongery agreed.

2.0 Engineering and Design - Continued

2.1.7 Architectural Design Contd.

4. General service building drawing queries/telexes replied to and details confirmed.
5. ACME fire door detail drawings checked and marked up. Discrepancies noted and advised by telex. Voltage elect. operation confirmed.
6. Furniture proposals from Voest Alpine reviewed and rejected. Revised submission awaited.
7. Regular telex query/reply service maintained with V.A., B.S. and B.K.G.
8. All subcontract drawings submitted, reviewed, marked up and returned for attention/information.
9. Contract Admin. queries checked against specifications and contract terms.

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

Design and production of working drawings for the additional canal outfall pump station continued during the month.

Production of drawings for alternative harvester crossing points continued.

Mechanical and Electrical

Study of and commenting upon Wimpey's and their sub-contractors 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 - Movable Furniture

Nothing to report.

2.2 AGP-Reading Contd.

2.2.2. Contract No. 3 - Solar Evaporation System

Contract No. 6 - Additional Buildings

This Contract was awarded to Messrs. George Wimpey International Limited.

Contract No. 7 - Hospital Equipment

Preparation of Tender Documents was in progress during the month.

3.0 Carnallite Harvesting

During the month consideration was being given to the possible methods to be used for harvester dike crossing. It is expected that proposal should be ready for submission to Client by end of next month.

Preliminary harvester G.A. drawings were submitted for consideration and by month end detailed drawings were expected in early April.

Major fabrication of harvester components should also commence in April.

*Harvest 1.
in March 0
G*

4.0 JIL Contracts

Contract No. 10 with Voest-Alpine

Addendum No. 4 (orig. Contract No.12) was signed by APC and V.A. during the month.

Contract No. 11 with Brown Boveri

Work continued on monitoring and clarifying contractual points.

5.0 Procurement - JIL

The following P.O.'s are complete and 100% payment has been made.

01-1 Centrifugal Pump - Mather & Platt

01-2 Rotary Pumps - Mirrlees

01-3 Fire Pumps - Aurora

01-5 Slurry Booster Pumps - Simon Worman

04-1 Thickener Mechanism - Esmil

05-1 Agitators - Philadelphia Gear

5.0 Procurement - JIL Contd.

- 21-2 Centrifuges - Bird Machine Co.
- 21-4 Centrifuges - Bird Machine Co.
- 25-1 Product Dryer - Allis Chalmers
- 29-1 Wet Mechanical Handling - Precismeca
- 34-1 Truck Scales - Pfister
- 40-6 Condensate Pump Set - Worthington-Simpson
- 58-2 Maintenance Building - Ward Bros.

Status of Remaining Purchase Orders

- 01-4 Process Slurry Pumps - Worthington Canada
Original order complete. Amendments 4 and 5 due in May, 1981.
- 11-2 Plate Heat Exchangers - Alfa Laval.
Expect to have the final 5% of plate in June, 1981.
- 16-1 Crystalliser System - Whiting Fermont.
This P.O. is complete - final 10% payment has not been made.
- 18-1 Cooling Towers - Marley Intl.

This equipment is booked for shipping on board the "NECKAR" sailed from Houston March 1st and is d. Aqaba April 5th, 81.

5.0 Procurement - JIL - Continued

- 08-1875-23-2 Product Hydrocyclones - Dorr Oliver.
Delivery is scheduled for July, 1981.
- 08-1875-23-3 Tails Hydrocyclones - Krebs
This P.O. is complete - final payment has not yet been made.
- 08-1875-29-2 Screening & Compaction - Fried Krupp
Fourteen (14) part shipments have been made. Krupp have short-shipped on at least 2 shipments - this is being expedited by Dublin.
- 08-1875-64-15 Process Instruments - Foxboro.
Third and fourth part shipments due Aqaba mid and late April 81.
- 08-1875-64-44 Telemetering - Telectron
Manufacturing is due to commence mid-March, 81. Testing is scheduled for mid-April, 81 and delivery Aqaba June 1st 1981.
- 08-1875-64-45 Control Valves - Fisher Controls
Three (3) valves remain to be shipped on this order.
- 08-1875-65-4 Electrical Switchgear - Westinghouse
First part shipment left Spain 21.3.81 on board the "HERRAND" ETA Aqaba is 5.4.81. Second part shipment left U.S.A. on 23.3.81 on board the "ROBERT E. LEE" and is due Aqaba mid April, 81.

ATTACHMENT NO. 6.1

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	29.5.1979				

2

ATTACHMENT NO. 6.1

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%	
02-1875-01-4	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

ATTACHMENT NO. 6.1

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%	
OS-1875-01-5	Simon-Warman Ltd.	Hand Carried to APC by MME 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

ATTACHMENT NO. 6.1

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%	
08-1975-04-1	Esnil Envirotech Ltd.	Signed in Dublin Office April 1979	20.4.1979	24.5.1979	1.8.1979				
Amendment 2	Esnil Envirotech Ltd.	Signed in Dublin Office 11.01.1980	** mailed 16.1.'80	25.1.1980	28.1.1980				Mailed to APC
Amendment 3	Esnil Envirotech Ltd.	30.6.1980 Courier	* 14.7.1980 ** 15.7.1980	23.7.1980	29.7.1980				

6

ATTACHMENT NO. 5.1

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%	
08-1875-05-1	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

ATTACHMENT NO. 6.1

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%	
08-1975-18-1	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
08-1975-21-2	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				

ATTACHMENT NO. 6.1

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%	
08-1875-21-4	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	1.6.'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				

** = SELLER

ATTACHMENT NO. .5.1

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%	
08-1875-25-1	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				

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-c575-29-2 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				

ATTACHMENT NO. 6.1

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%	
08-1875-34-1	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 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 issued to Vendor by	13.4.81 courier 13.4.81	19.10.'79				
08-1875-39-3	GPE Teo Ltd.	Hand carried to APC by DG	8.10.1979	12.10.1979	19.10.'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

2

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%	
08-1875-40-6	Worthington-Simpson Ltd.	3.5.1979	9.5.1979	18.5.1979	29.6.1979				
08-1875-58-2	Ward Brothers (Sher- burn) 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	26.01.1980				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 Hand Carried	1.12.1980	1.12.1980 Courier				

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%	
08-1875-64-45	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						
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 Amendment 2	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						
Amendment 4	Westinghouse Electric	By Courier 26.9.1980	13.10.1980 14.10.1980 Courier						
Amendment 5	Westinghouse Electric	25.11.1980 Courier	8.12.1980 12.12.1980						

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				

22

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	Signed in Amman 18.1.1981	-	27.1.1981				
08-1875-39-4-	Rahco DISC Inc., Amendment No. 1	4.3.1981	P.O. to Seller By Hand (KB) 26.2.1981	11.3.1981	already issued				

5

JACOBS INTERNATIONAL LIMITED

DM

Handwritten signatures and initials

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

From: Mr. Mark M. Frimodig
 Vice President &
 Deputy Project Director
 Jacobs International Ltd.,
 Merrion House, Merrion Road
 DUBLIN 4, Ireland.

On Project No. 08-1875

attached are 1 enclosures 4 prints of each. We release them for
 construction _____ purchase _____ approval XX fabrication _____
 design _____ your file _____ information _____ action _____

Enclosure	Rev	Description	Date	Pages
Purchase Order for Signature		<u>ARAB POTASH PROJECT</u> P.O. No. 08-1875-64-45 Main Process Control Valves Fisher Controls Corporation Amendment No. 5	7.4.81	3

Remarks/Special Instructions:

Enclosed please find four copies of above Purchase Order 08-1875-64-45, Amendment No. 5. Please sign three copies and return same to this office, the remaining copy is for your files

<u>Copies to:</u>	<u>Client</u>	<u>Jacobs</u>	<u>Other Parties</u>
	AK (4)	MME KB JC GL JO'K RJB RA - Field DR/DG Field JN Field File	I.B.R.D. A.I.D. A.I.D. (AMMAN) Kuwait Fund

PURCHASE ORDER

OB-1875-64-45

Amendment No. 5

ARAB POTASH COMPANY LTD.

P.O. BOX 1470
AMMAN, JORDAN

PURCHASE ORDER

Page 1 of 3 Pages Project 08-1875 POTASH PLANT Date: 7th April, 1981

To: Fisher Controls Corporation
1900 Fisher Building
Marshallstown, IOWA 50158
USA.
c/o Fisher Controls Limited
Brenchley House, Week Street,
Maidstone, KENT,
ENGLAND
Telephone No:
Telex No:

THIS PURCHASE ORDER NUMBER MUST APPEAR
ON ALL PAPERS AND CORRESPONDENCE
RELATING TO THIS ORDER

PURCHASE ORDER NO.

08-1875-64-45

AMENDMENT NO: 5

Ship To:
SAME

NOTICE TO SELLER

All communications and correspondence in
regard to the Purchase Order shall be
with

Jacobs International Limited
Park House, North Circular Road
Dublin 7, Ireland.

Export Markings:
SAME

Order acknowledgement, inspection notices
shipping information, drawings and data, all
invoices shall be mailed to Jacobs
International Limited.

SELLER SHALL SHIP ALL ITEMS AS LISTED ON THE ATTACHED PAGES IN COMPLETE ACCORDANCE WITH
THIS ORDER AND ATTACHMENTS LISTED ON PAGE TWO (2).

Delivery Schedule: SEE BELOW
Seller to Ship Via: SAME
Shipping Terms: SAME
Shipping Point: SAME
Terms of Payment: SAME
Purchaser will make shipment to final destination via: SAME
Jacobs International Limited Contact: SAME
Requisition No: SAME

Arab Potash Company Ltd.

Signed: _____ *VB*

ARAB POTASH COMPANY LTD.

PURCHASE ORDER NO. 08-1875-64-45

Page 2 of 3

ITEM	QUANTITY	DESCRIPTION	UNIT	AMOUNT
		<u>AMENDMENT NO. 5</u>	<u>U.S.</u>	<u>DOLLARS</u>
		Kindly refer to our original Purchase Order dated 5th July 1979 and Amendment Nos: 1 through 4 and revise to include the following:		
68	2	12" type 1051-9500 Butterfly valves as detailed in Specification No: 08-1875-64-45.	4,813.00	9,626.00
69	LOT	Preparation, packing, carriage and freight for C. & F. unloaded dockside, Port of Aqaba, Jordan.	LOT	751.00
		<u>Nett Total Fixed Price, US\$</u>		
		<u>C. & F. unloaded Dockside, Port of Aqaba.</u>		10,377.00
		Previous Purchase Order Value		462,589.18
		Add this Amendment No. 5		10,377.00
		<u>Revised Nett Total Fixed Price, US\$</u>		
		<u>C. & F. unloaded Dockside, Port of Aqaba.</u>		472,966.18 =====
		<u>Delivery Schedule</u>		
		25th August, 1981.		
		<u>Terms and Conditions</u>		
		All other Terms and Conditions of our original Purchase Order and Amendment Nos. 1 through 4 remain the same and apply to this Amendment No. 5.		

ARAB POTASH COMPANY LTD.

PURCHASE ORDER NO. 08-1875-64-45

Page 3 of 3

ITEM	QUANTITY	DESCRIPTION	UNIT	AMOUNT
------	----------	-------------	------	--------

Acceptance

Seller shall acknowledge receipt and acceptance of this Purchase Order by signing the duplicate copies of this order in the space provided and returning promptly.

For and on behalf of:

FISHER CONTROLS CORPORATION

ACCEPTED BY : _____

TITLE : _____

DATE : _____

Handwritten: ~~McColl~~ info. file JIM

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

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

On Project 08-1875

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

Enclosure	Rev	Description	Date	Pages
		<u>ARAB POTASH PROJECT</u> MONTHLY PROGRESS REPORT MARCH, 1981.		

Remarks/Special Instructions:

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