

**IRAQ'S FULL, FINAL AND COMPLETE DISCLOSURE ("FFCD")
REGARDING CHEMICAL WEAPONS**

TO

**THE UNITED NATIONS
SPECIAL COMMISSION ("UNSCOM")**

1998

(pursuant to U.N. Security Council Resolution 687, dated 3 April 1991)

(((INTRODUCTION)))

This document titled Full Final and Complete Disclosure (henceforth referred to as FFCD) of Iraq's past Chemical programme was compiled by the specialists and other personnel who worked in various capacities over the years in the programme .

It is submitted in compliance with the Security Council resolutions 687(1991) and 707(1991) . The first version of the FFCD was submitted four years earlier, in June 1992. That document contained the essential information's answering para 3(i) of resolution 707(1991) . It gave a brief description of the important historical development of the programme which was later to be encompassed in the facilities known as Al-Muthana State Establishment (MSE) .

That document also contained an account of the research and development activities on chemical agents which led to actual bulk production of agents and weaponization into munitions . The production figures for bulk agents produced given in the June 1992 FFCD however, did not reflect the actual quantities filled into munitions which were disposed of during the period prior to August 1988 . The reasons for those and other omissions are explained in this final document .

The overriding consideration from Iraq's viewpoint as far as the June 1992 FFCD was the essential fact, which remained unchanged since then, that the chemical programme had been totally destroyed, removed , or rendered harmless in accordance with para 8 of SCR 687(1991) .

UNSCOM, however, after a period of two years spent in destroying stocks of munitions, production materials and facilities etc, with the full cooperation and participation of Iraqi personnel required more and more details about the past programme . The informations required widened with time to include history of the programme from its very beginning including false starts and failed attempts, personnel and organizations involved . Production records and inventories, all details of research and development efforts, informations about procurement activities, supplier companies and agents, their names and their countries , financial and commercial records, material balances going back many years ,structures, organizations and authorities involved in decision making and their participation in the programme in any way . The requirement for more and more details resulted in the revision and resubmission of six draft FFCD's since the first document of June 1992 .

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The discovery in August 1995 of the chicken farm documentations hidden by Hussain Kamel and their immediate handing over to UNSCOM without any review or filtering

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illustrates the Iraqi side confidence that the discovered documents will essentially substantiate Iraq's disclosures based on recollections and whatever documentation, direct or indirect, found by the Iraqi side and submitted within this FFCD .

It is hoped that this last FFCD which gives the most comprehensive account of Iraq's past chemical programme provides all the answers UNSCOM seeks . Be that as it may, the fact remains that since end of 1991 Iraq's chemical weapons programme was totally and absolutely neutralized .

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***** CHAPTER I *****

1. HISTORY OF IRAQ'S PAST CHEMICAL WARFARE ACTIVITIES

1.1 The period from 1971 & Al-Hassan Ibn-Al-Haitham:-

1.1.1. In 1971, a group of about five chemical corps officers, suggested to conduct chemical synthesis of some CW agents (Mustard, Tabun, CS) in laboratory scale for the purpose of familiarization and acquisition of some experience in CW agents. Their suggestion was approved and they were assigned to work at a site called Al Rashad village near Baghdad where they established some Laboratories.

1.1.2 In 1974 Al-Hassan Ibn Al-Haitham organization was established, the objective of the CW group was to conduct research on synthesizing chemical warfare agents like Mustard, Sarin, Tabun, Cs & Pesticides. The group began its activities at Al-Rashad site after adding more labs to what existed at that time and also adding technical lab. equipments (UV, IR, GC, CHN & NMR). This Organization succeeded in synthesizing Mustard, Tabun and Pesticides like 2,4 D, Malathion and Parathion in a lab. scale (few grams from each). The Organization put the foundation stone for a new site at Samara (Al-Muthanna State Establishment site later), meanwhile it imported scientific glassware necessary for synthesis in a pilot plant scale, two multipurpose pilot units one unit with glass reactor of (200) liter from Evis Co./ France, another unit with glass reactor of 500 liter from pilot plant Co. to be installed at two separate buildings established at the site of Samara especially for them (P7 & Ahmed).

These equipments were not used and they were in the boxes until they were received by 922 Project in 1981. One could see that there was no idea, within the planning of the establishment authorities, concerning chemical weapon production as they had not foreseen within the project stores, munition production, and filling facilities necessary for weaponization. The Organization was dissolved at the end of 1978 due to administrative reasons.

There was no relationship between Al-Hassan Ibn Al-Haitham and the previous group mentioned in item (1.1.1) except that some of the personnel in both activities were from the chemical corps, and they used the same facilities at Al-Rashad site.

The CW group of AL-Hassan Ibn Al-Haitham Organization conducted its activities at Al-Rashad site, which consisted of the following:

One building for analytical department equipped with UV, IR, GC, CHN & NMR and other simple lab. equipments. One building containing four labs. for the synthesis of Mustard, Tabun, Sarin, Cs & Pesticide, equipped with glassware and lab. equipments like rota-evaporator 500 ml volume, vacuum pumps, small chillers, heating mantles, stirrers and other simple ordinary lab. equipments.

Small mechanical workshop for maintenance.

Chemical store for the chemical reagents.

Store for equipments and glassware.

1.1.3 In 1978 Al-Hassan Ibn-Al-Haitham Organization was liquidated for failure in achieving their objectives and other reasons connected with mismanagement and fraud. The assets which consisted of unfinished buildings and equipment still in boxes became the property of SOTI without the obligation to complete the project or to achieve its objectives. Work was suspended until in 1981 a decision was taken to reactivate the project in accordance with a new plan worked out by the director of the chemical corps at the time Gen. Nizzar Al-Attar with direct link to MOD minister and administrative and commercial support from SOTI. Thus project 922 was initiated.

1.1.4 At the end of 1979, a chemical research lab. for chemical corps was established and occupied Al-Rashad site, one of its activities was to synthesize chemical agents in a lab. scale for the purpose of testing the protective clothes and also for the calibration of detection equipment and chemical reconnaissance activity, literature survey was done also at that time on the way how to synthesize nerve agents (e.g. Sarin & Tabun) in addition to that this laboratory conducted analysis and tests related to protection and decontamination for the chemical corps duties. The time frame of the chemical research lab. was from 1979-1981. The research lab of the chemical corps with Al-Rashad site was affiliated to the Research Center 922 with all its staff. After some months Samara site was handed over to project 922 a few months later Al-Rashad site was closed (Summer 1983).

1.1.5 In June 8, 1981, the CW programme was established represented by project 922. The objectives of the chemical programme were to produce chemical warfare agents and chemical munition & production of WP smoke munition because the chemical munition are designed for WP filling (Aerial bomb 250, 500 and Artillery shell 155 mm). From the beginning of the programme it was planned to produce Mustard, Tabun, Sarin & VX agents in addition to produce CS. The program succeeded in the production of Mustard, Tabun and Sarin agents in addition to CS but did not succeed in the production of VX in lab scale due to difficulty in preparing this agent. However, some VX precursors like MPS, the monoester and choline were prepared in the lab during the period 1985-1987 but the final product was elusive. That was the case until 1987. In 1987 Vx and it's precursors were synthesized successfully in lab. scale and their yields, stability, and Vx potency were determined. Accordingly reports of the success were transmitted to MIC requesting that measures for procurement of materials for production phase be undertaken. In 1988 efforts to produced VX using a multi- purpose pilot plant met with difficulties connected with yield, purity and stability. Efforts to overcome these problems were not successful and production was stopped after five trial batches. After Aug. 1988 all production of CW agents at Al-Muthana was stopped. In 1990 CW production activities were resumed for Mustard, Sarin, and Sarin derivatives in addition to their precursors. Another attempt was made to produce Vx as Vx HCl salt in order to overcome the earlier problems of yield, purity and above all stability. Two trial batches were made. The results were negative and the production ceased in order to preserve the intermediate chemicals which were in short supply, mainly TMP which was also needed for Sarin and derivatives. The chemical programme was connected to the Minister of Defense directly and under SOTI director general from the technical aspect. Project 922 was given the name State Establishment for Pesticide Production (SEPP) was established and affiliated to the State Organization for Chemical Industries / Ministry of Industry, but the code name in relation to its connection with Minister of Defense was research center 922 (R.C.922). In 1987 SEPP was renamed as Al-Muthana State Establishment which became part of MIC and the connection with the Minister of Defense ceased.

1.1.6 In the last quarter of 1988 & 1989 Al-Muthana production activities were mainly directed towards civil production of chemicals for pesticides and pharmaceuticals in addition to project implementations. (see doc. III.2 annual report covering Al-Muthana activity in the first half of 1989.)

1.2 Aims of the chemical programmes: The main aim of the chemical programmes was to produce chemical weapons, and WP munitions. Due to the nature of this weapon and lack of experience among the Army units in the field of handling it properly, the CW programs took other additional duties to maintain the main aim:-

1.2.1 Storing of the chemical munitions and agents.

1.2.2 Transportation of the chemical munitions.

1.2.3 Giving consultations on the chemical munitions dispersion.

1.2.4 In 1983 another objective was added to project 922 which was to initiate the BW research and development without elaborating further objectives as with the CW programme. However no steps were taken to implement the BW R & D activity until 1985.

1.2.5 Secondary Aims for the CW programme:

1.2.5.1 Conducting research to produce pesticides for agricultural purposes (during the period 1984-1987), to be ready for shifting to the civil production in case of no need for chemical warfare agents.

1.2.5.2 Production of casing for chemical munitions (aerial bombs) which were within the capabilities of the programmes.

1.2.5.3 Production of key Precursors for CW agents.

1.2.6 Further Duties:

To implement the main and secondary aims of the programmes, the following tasks were taken into consideration:-

1.2.6.1 Research and development for all aspects of CW programmes.

1.2.6.2 Production of CW agents and Precursors.

1.2.6.3 Filling of chemical munitions and WP munition.

1.2.6.4 Storing of chemical munitions and agents.

1.2.6.5 Transportation of chemical munitions.

1.2.6.6 Establishing of technical workshop that would be able to cover all maintenance and construction of the production units.

1.2.6.7 Establishing workshop for aerial bombs production.

1.2.6.8 Establishing of medical center to treat ordinary and chemical injuries and to conduct bioassay test in the bio-chemical lab. in the medical center.

1.3. The financial allocations:

1.3.1 The approximate total expenditures of the programmes was as follows:-

1.3.1.1 The civil engineering works, which include production, residential and administrative sites 160,095,000 DM, 8,722,341 \$, 70,999,181 Fr.F and the cost of bunkers 80,000,000 \$.

1.3.1.2. The production equipment, machinery for the aerial bomb workshop and chemical materials 346,206,243 DM, 3,900,400 STG ,11,534,000 Fr.F,13,763,500 DFL, 102,422,200 \$, 4,200,000 BFr, 187,908,000 ASH, 37,884,000 SF, 11,766 KD, 217,530,400 JY,1,284,641 SHC, 109,650 DC.

1.3.1.3. Munition 189,000,000 \$.

1.3.2 The above mentioned expenditures did not include the following:

1.3.2.1 Cost of Samara site establishing up to date of affiliation to SOTI.

1.3.2.2 Cost of the imported equipment by Al-Hassan Ibn Al- Haitham received by SOTI.

1.3.2.3 Cost of land of Samara site.

1.3.2.4 Cost of Al-Rashad site, supplies and labs.

1.3.2.5 Salaries and administrative services and local procurement.

1.3.3 Mechanism of financial resources allocations for the programmes.

1.3.3.1 The programmes was exempted from the normal fixed budget. This mode stopped when Al-Muthana became part of MIC from 1987 till it's liquidation in 1991.

1.3.3.2 During 1981-1987 the programmes financial allocations were allocated according to a proposal submitted by the project manager to cover the financial requirements to implement the programmes activities during a named period.

1.3.3.3 After obtaining the approval on the proposal of allocation the amount will be transferred to the programmes account at the central bank of Iraq. From 1987 till 1991 the financial allocation followed the practice of state establishments of MIC which meant a fixed budget submitted and approved for each year.

1.4. References:-

1.4.1 The American publications on:-

1.4.1.1 Chemical weapons capabilities.

1.4.1.2 Tactical use for chemical weapons.

1.4.1.3 Meteorology.

1.4.1.4 Tables of chemical weapons using.

1.4.1.5 Evaluation of the chemical situations.

1.4.1.6 The Technical manual Ammunition.

1.5 The priorities in executing the chemical programmes.

1.5.1 The priority in implementing the chemical programmes in general was as follow:

1.5.1.1 Research and development enhancement during the whole programmes execution period.

1.5.1.2 Construction of stores for chemical ammunitions during 1982 and 1983.

1.5.1.3 Construction of production unit buildings during the whole programme execution period.

1.5.1.4 Providing the suitable production means during 1982 and 1987.

1.5.1.5 Providing empty chemical munition during the whole programme execution.

1.5.1.6 Providing the filling and handling requirements for the chemical agents and munitions during the whole programme execution period.

1.5.1.7 Providing the main chemical materials (precursors) for the programmes during the whole programmes execution period.

1.5.1.8 Providing the pesticide production requirements from 1986 to the present time.

1.5.2 Research and Development capability enhancement:

1.5.2.1 Al-Rashad labs were received with some furniture and equipment for synthesis and analytical works. The main analytical equipments received were: GC, UV, IR while NMR and a CHN were out of order. A limited quantity of scientific literature were also received.

1.5.2.2 The labs at Samara site were completed and equipped with the necessary synthesis and analytical

equipments, in the middle of 1983. Annex (A) shows the list of the analytical equipments. The toxic evaluation department was also developed.

An inhalation chamber and a number of inhalation boxes for small animals were also installed. In addition, the animals house was provided with necessary equipments and animals.

1.5.2.3 Central library at Al-Muthana was established at the end of 1983, in addition to the books, references and periodicals, the library procured microfilm and microfiche with readers for documentation purposes some of the microfilm and microfiche was destroyed during the bombardment of the library, other were evacuated, and the rest now exist in the library Falluja/III.

1.5.3 Chemical Bunkers

1.5.3.1 At the beginning of the programmes there were no chemical stores in Iraq, therefore, store no. 53 in Al-Akhather ammunition stores was allocated for the purposes of storing the first batches of the produced mustard and 130 mm caliber ammunition filled with mustard. While ammunitions filled with CS were stored in Al-Rashad site. This procedure continued until stores at Samara site were completed, where munitions and materials were transferred from store no. 53 to the chemical stores at Samara site at the end of 1983.

1.5.3.2 The Army stores at Al-Khamysia, air bases stores and the chemical proving ground of the chemical corps (annex B) were used for storing the chemical munitions (in Jan. 1991) for the purpose of dispersion of the munition during the war. Then

part of the ammunition were destroyed by the establishment while the remaining part returned back to Samara site and destroyed there under the supervision of UNSCOM.

1.5.3.3 In 1987 Al-Mohamadyat stores were allocated to Al- Muthana in addition to the bunkers.

1.5.4 The Production units Buildings:

1.5.4.1 The production units that were used at Al-Rashad site installed in a normal and small halls which lack industrial safety regulations, using rotary capacity 50 L (two units).

1.5.4.2 In Samara site, the production sites (Ahmed) plant for DF production, (P 8) for Mustard production, (P 7) for Sarin & Tabun production, (Mohammed) plant for D4 and MPC, (Maleik) plant for Tabun, DMMP and MPC, (DIHAA) plant for Vx, MPS and herbicides during the period of the programmes.

1.5.4.3 In 1982 a contract was signed with (HEBERGER Co.) to construct four production buildings. Glass pilot units which were purchased from Pilot Plant Co. were installed in two buildings, while in the third building a 1 m³ monel reactor was installed, in the 4th building an inhalation chamber was installed.

1.5.4.4 A contract was signed at the end of 1983 with (HEBERGER Co.) to construct another four production buildings, Mohammed, Malik and DIHAA (Dihaa consisted of two buildings) 1.5.4.5 A contract was signed in the end of 1985 with WTB Co., to construct three integrative production sites which were Faluja 1, 2 and 3, to install the production equipment which were imported in the beginning of 1987.

1.5.5 Providing the Production Means

1.5.5.1 The production units at Al-Rashad site were simple and comprised of two rotating reactors (Buchi) for Mustard agent production with 50 liter capacity for both. There was also a small reactor for the production of CS in addition to a simple CS filling unit.

A reactor with 100 liter capacity was installed at Al- Rashad site to increase the production of mustard.

1.5.5.2 An agreement was reached with Pilot Plant Co. in 1982 to supply us with two glass pilot units of 100 liter for each. Later on they were changed with 200 liter capacity then with a 400 liter capacity reactor (HASTALLOY) installed in H1 and H2.

<u>ITEM</u>	<u>CHEMICAL</u>	<u>L/C No.</u>	<u>QTY.TON</u>	<u>SUPPLIER</u>
13	KF	Protocol 84/1	275	ABO ZA'BAL
<u>ITEM</u>	<u>CHEMICAL</u>	<u>L/C No.</u>	<u>QTY.TON</u>	<u>SUPPLIER</u>
14	DIMETHIL AMIN	86/3/476	5	COMPANIES
<u>ITEM</u>	<u>CHEMICAL</u>	<u>L/C No.</u>	<u>QTY.TON</u>	<u>SUPPLIER</u>
15	CHLOROE- THANOL	86/3/1145	192	EXOMIT
<u>ITEM</u>	<u>CHEMICAL</u>	<u>L/C No.</u>	<u>QTY.TON</u>	<u>SUPPLIER</u>
16	NaF	84/3/1093	52.8	WET
		84/3/1401	20	REINING HAUS
		84/3/1323	22.5	REINING HAUS
		84/3/1450	20	REINING HAUS
		84/3/850	2	REINING HAUS
		84/3/862	17.6	REINING HAUS
		84/3/1349	54	REINING HAUS
			-----	WET
			188.9	

<u>ITEM</u>	<u>CHEMICAL</u>	<u>L/C No.</u>	<u>QTY.TON</u>	<u>SUPPLIER</u>
17	O.CHLORO BENZALD- EHYDE	82/3/900 88/3/811	10 50	HOGEST WECO
			60	
		82/3/34	---	MELCHEMI Probably supplied
		82/3/898	7	KBS Probably supplied
<u>ITEM</u>	<u>CHEMICAL</u>	<u>L/C No.</u>	<u>QTY.TON</u>	<u>SUPPLIER</u>
18	MALONON- ITRIL	84/3/429	14.4	KBS
<u>ITEM</u>	<u>CHEMICAL</u>	<u>L/C No.</u>	<u>QTY.TON</u>	<u>SUPPLIER</u>
19	DIMENDELIC- ACID	84/3/1379	2	KBS
<u>ITEM</u>	<u>CHEMICAL</u>	<u>L/C No.</u>	<u>QTY.TON</u>	<u>SUPPLIER</u>
20	DIISOPROPYL- AMIN	86/3/1145	200	KIM AL- KHALLEEJ

<u>ITEM</u>	<u>CHEMICAL</u>	<u>L/C No.</u>	<u>QTY.TON</u>	<u>SUPPLIER</u>
21	p2S5	86/3/1145	250	EXOMIT
<u>ITEM</u>	<u>CHEMICAL</u>	<u>L/C No.</u>	<u>QTY.TON</u>	<u>SUPPLIER</u>
22	Morpholine	87/3/1874	15	KIM AL-KHALLEEJ
<u>ITEM</u>	<u>CHEMICAL</u>	<u>L/C No.</u>	<u>QTY.TON</u>	<u>SUPPLIER</u>
23	Triethy-lamin	87/3/1874	48	KIM AL-KHALLEEJ

UNKNOWN MATERIALS L/C

<u>ITEM</u>	<u>L/C No.</u>	<u>CHEMICAL</u>	<u>QTY.TON</u>	<u>SUPPLIER</u>
1	83/3/335			KBS
2	83/3/689			TAFESA
3	83/3/854			TAFESA
4	84/3/1251			MELCHEMIE
5	84/3/1490			KBS (CANCELED)
6	84/3/1612			KBS
7	84/3/1637			MELCHEMIE
8	84/3/105			AL-HADDAD
9	86/3/569			KBS
10	86/3/949			COMPANIES
11	86/3/1534			GANSSEN
12	87/3/219			(CANCELED) TAFESA

UNIMPORTANT MATERIALS

<u>ITEM</u>	<u>L/C No.</u>	<u>CHEMICAL</u>	<u>QTY.TON</u>	<u>SUPPLIER</u>
1	83/3/824	NaOH+DCM+WP		MELCHEMIE
2	83/3/1122	ETHYL ALCOHOL		KBS
3	84/3/197	BLEACHING POWDER		PRUSSAG
4	87/3/526	LAB. CHEMICALS		FLUKA
5	88/3/46	Zn POWDER	7	WECO
6	88/3/2648	CHEMICALS FOR PESTICIDES		WECO
7	88/3/1746	PHENOL FORMALDEHYDE		KBS
8	84/3/39	LAB. CHEMICALS		FLUKA
9	10/65718	HgCl2		WECO
10	10/65733	XYELNE		HIP
11	88/3/2880	CHEMICALS FOR PESTICIDES		WECO
12	85/3/494	3-HYDROXY METHYL PIPYRIDENE	0.6	FLUKA
13	85/3/238	LAB. CHEMICALS		FLUKA
14	85/3/424	CH3I	2	KBS
15	85/3/444	CH3I	2	WET
16	85/3/747	KI		FLUKA
17	85/3/783	LAB. CHEMICALS		FLUKA
18	85/3/1114	LAB. CHEMICALS		FLUKA
19	86/3/260	KI + CH2CL2 + CHLORAMIN T	600	MELCHEMIE
20	86/3/479	LAB. CHEMICALS		FLUKA
21	86/3/726	LAB. CHEMICALS		FLUKA
22	86/3/1049	LAB. CHEMICALS		BDH

23	86/3/1365	CHLOROAMINE	0.361	KBS
24	86/3/266	LAB. CHEMICALS		PHARMACIA
25	86/3/257	LAB. CHEMICALS		FLUKA
26	86/3/899	LAB. CHEMICALS		BDH
27	86/3/913	LAB. CHEMICALS		FLUKA
28	10/65756	LAB. CHEMICALS		SIGMA
29	82/3/924			KBS
		MONOCHLOROBENZENE		
		N		
30	84/3/517	CH3I	2	KBS
31	84/3/121	CHLORAMIN		RIDEL DEHEIN
32	84/3/1113	CHLOROBENZEN	50	KBS
33	84/3/1080	CH2CL2	600	MELCHEMIE
34	84/3/1349	KI	0.268	WET
35	86/3/918	KI	3	WET
36	86/3/474	Dichloro Methane	58	WET
37	85/3/771	Isopropyl amine	10	WET (Reining Hause)
38	82/3/979			KBS
39	83/3/357	LAB.CHEMICALS		MERK
40	83/3/371	LAB.CHEMICALS		RIDELDE HEIN
41	84/3/1346	LAB.CHEMICALS		FLUKA
42	84/3/1534	Maleic anhydried		KBS
43	87/3/142	LAB.CHEMICALS		SIGMA

*In August 1987 Exomat Company was requested to submit an offer for Pinacolyl Alcohol, no offer was submitted, and the matter was abandoned.

*In 1987 an attempt to procure 10 tons of choline chloride (free base) from Degussa Company no offer was submitted and the matter was abandoned.

*In October 13, 1987 Mr. Frans was requested to offer for Pinocolyl alcohol, choline and some precursors for V agent (P2S5, Diisopropylamine and chloroethanol), no offer was submitted and the matter was abandoned.

*In March 1988 attempts were carried out to procure chemicals (TDG, HF, TMP & Pinacoyl alcohol,.) from Montodson, Monteflor, Carmel, Bayer and Montedson Egypt Branch, no offer was obtained.

*Mr. Kasim Abbas (Euromac Co.) Mr. Bell (Boneventure Co.), Mr. Cantori and Mr. Ameen Shereen (Turkish Citizen) were requested to procure precursors chemicals, no offers were obtained.

*An attempt was carried with Saudia Arabia to procure ethylene oxide from Sabic Company in 1987, and found unsuitable because of the percentage of ethylene oxide was 15% and the matter was neglected.

*16 ton of ethylene glycol was procured from Sabic Company in 1987.

*An attempt to procure TDG, TMP and ethylene oxide from Exomit in 1987 but the offer was not submitted and the matter was neglected.

*An attempt with U.K. to procure HF and malonitrile but this was not materialized due to high price.

*An attempt with ICI Company (U.K.) to procure insecticide in 1982 but this was not materialized.

*In Oct. 1987 a request to Herberger Co. to supply chemical as shown below :-

- Pinacolyl alcohol	250 T
- Triethyl amine	50 T
- Diisopropyl thio ethanol amine	250 T
- Diisopropyl amino ethanol	200 T
- Diisopropyl amino ethyl chloride	200 T
- Cyclohexanol	200 T

No offer was submitted and nothing materialized .

* In 1987 a request to HIP Co. through Mr. Lucas to supply chemicals:-

- P2S5 100 T
- Diisopropyl amine 5 T
- Benzen 50 T
- Acetone 50 T
- Trisodium phosphate 10 T
- Cyclohexanol 10 T
- Morphaline 5 T
- Chloro - hydrine 100 T

No offer was submitted and nothing Supplied.

* An attempt to procure pinacolyl alcohol (10 T) from syprus company (servan) in 1987 an offer was submitted but not materialized

III-A : TYPES & QUANTITIES OF PRODUCTION EQUIPMENT PROCURED FOR CW - PROGRAMM 1996

NO.	DESCRIPTION OF ITEM	EXPORTER	YEAR OF EXP.	ANUFACT.	LC NO.	STATUS	YEAR OF MANF	PRESENT LOCATION	TAG NO.	PROJECT
1	REACTORS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	USED BEFORE DES.	1987	DMPH plant	1637	General for
2	REACTORS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	PARTIALLY DES.	1987	Amongst broken equip. in storage *	1688	Falluja 1,2,3
3	REACTORS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	IN SERVICE	1985	Xylen dist. area behind building	1012	
4	REACTORS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	IN SERVICE	1987	Brake fluid formulation building	1585	
5	REACTORS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	IN SERVICE	1985	Production building 3	1746	
6	REACTORS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	PARTIALLY DES.	1986	Anilline plant /Falluja 3	1936	
	TOTALLY 6									
7	REACTORS 2.5M3 GLASS LINED	DEDIETRICH	1985	DEDIETRICH	567/3/84	IN SERVICE	1985	Storage area south of phenol plant (used before in Muatasim 4 as a buffer)	1700	General

8	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	IN SERVICE	1985	production building 3	1573	General
9	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	IN SERVICE	1985	production building 3	1574	General
10	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	IN SERVICE	1985	Castor oil plant(used before in Muatasim 4 / 1986) PCI3 distillation	1717	General
11	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	USED BEFORE	1985		1642	General
12	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	USED BEFORE	1985	PCI3 distillation	1643	General
13	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	USED BEFORE	1985	Stam plant (DMMP) Dihaa	1666	General
14	REACTORS 2.5M3 GLASS LINED	DEDIETRICH	1985	DEDIETRICH	567/3/84	USED BEFORE	1985	Stam plant (DMMP) Dihaa	1667	General
15	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	IN SERVICE	1985	production building 4	1582	General
16	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	IN SERVICE	1985	production building 4	1583	General

17	REACTORS 2.5M3 GLASS LINED	I.T	1985	DEDIETRICH	1651/3/84	IN SERVICE	1985	Ferric chloride (used before in Muatasim 4 / 1985)	1904	General
18	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	PARTIALLY DES.	1984	Sto.area at eastern corner of site	1679	General
19	REACTORS 2.5M3 GLASS LINED	I.T	1985	DEDIETRICH	1651/3/84	BROKEN	1985	D4 Plant (Muatasim 3)	1877	General **
20	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	BROKEN	1985	D4 Plant (Muatasim 3)	1878	General
21	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	BROKEN	1985	D4 Plant (Muatasim 3)	1879	General
22	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	BROKEN	1985	Thionyl plant (Al-Mamun)	1827	General
23	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	BROKEN	1985	MPC Plant (Bin Hayan 2)	--	General
24	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	BROKEN	1985	Mustard gas (Bin Hayan 1)	--	General
25	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	BROKEN	1985	Mustard gas (Bin Hayan 1)	1848	General

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26	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	BROKEN	1985	Mustard gas (Bin Hayan 1)	1849	General
27	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	BROKEN	1985	Mustard gas (Bin Hayan 1)	--	General
28	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	BROKEN	1985	Thionyl plant (Al-Mamun)	--	General
29	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	490/3/84	IN SERVICE	1985	AL-QAQA	1613	General
30	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	490/3/84	IN SERVICE	1985	AL-QAQA	1614	General
31	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	490/3/84	IN SERVICE	1985	S.E.FOR VEGETABLE OIL	--	General
32	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	490/3/84	IN SERVICE	1985	S.E.FOR VEGETABLE OIL	--	General
33	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	490/3/84	PARTIALLY DES.	1985	AL-QAQA	--	General
TOTALLY27										
34	GLASS LINED REACTORS 1.6M3 GLASS LINED	Q.T.I.	1985	DEDIETRICH	1250/3/84	IN SERVICE	1985	Production building 4	1580	Mohamid

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35	REACTORS 1.6M3 GLASS LINED	Q.T.L	1985	DEDIETRICH	1250/3/84	BROKEN	1984	MPC Plant (Bin Hayan 2)	1838	Mohamd
36	REACTORS 1.6M3 GLASS LINED	Q.T.L	1985	DEDIETRICH	1250/3/84	BROKEN	1984	MPC Plant (Bin Hayan 2)	1839	Mohamd
37	REACTORS 1.6M3 GLASS LINED	WET	1985	PFAUDLER	770/3/85	BROKEN	1985	Stam Plant (Dihaa)	--	General
38	REACTORS 1.6M3 GLASS LINED	WET	1985	PFAUDLER	770/3/85	BROKEN	1985	Stam Plant (Dihaa)	--	General
39	REACTORS 1.6M3 GLASS LINED	WET	1985	PFAUDLER	770/3/85	BROKEN	1985	Tahadi(used in Jaber S.Est./1995)	1621	General
40	REACTORS 1.6M3 GLASS LINED	PILOT PLANT	1984	PFAUDLER	1073/3/83	USED BEFORE	1983	DMPH plant	1501	Ani
41	REACTORS 1.6M3 GLASS LINED	PILOT PLANT	1984	PFAUDLER	1073/3/83	USED BEFORE	1983	DMPH plant (used before in DF(6))	1503	Ani
42	REACTORS 1.6M3 GLASS LINED	PILOT PLANT	1984	PFAUDLER	1073/3/83	BROKEN	1983	Muatasim 2) Work shop (used before in Tahadi)	1853	Mohamad
43	REACTORS 1.6M3 GLASS LINED	PILOT PLANT	1984	PFAUDLER	1073/3/83	BROKEN	1983	Work shop (used before in Tahadi)	1854	Mohamad

44	REACTORS 1.6M3 GLASS LINED	PILOT PLANT	1984	PFAUDLER	1073/3/83	BROKEN	1983	Thionyl plant (Al-Mamun)	--	Mohamad
45	REACTORS 1.6M3 GLASS LINED	PILOT PLANT	1984	PFAUDLER	1073/3/83	IN SERVICE	1983	AL-QAQA TARIK FACTORY	1617	Mohamad
	TOTALLY 12									
46	REACTORS 2M3 GLASS LINED	PILOT PLANT	1984	SOMMER	1073/3/83	PARTIALLY DES.	1983	Beside workshopç used before in	1020	Mohamad
47	REACTORS 2M3 GLASS LINED	PILOT PLANT	1984	SOMMER	1073/3/83	PARTIALLY DES.	1983	Beside workshop 11 Mutasim 3/85- 1986	1021	Mohamad
	TOTALLY 2									
48	REACTORS IM3 HC	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	DF plant (6) (Muatasim 2)	--	Ahmed / 1
49	REACTORS IM3 HC	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	DF plant (6) (Muatasim 2)	--	Ahmed / 1
50	REACTORS IM3 HC	PILOT PLANT	1983	QUSAT	869/3/82	BROKEN	1982	DF plant (7) (Muatasim 2)	--	Ahmed / 2
51	REACTORS IM3 HC	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	DF plant (7) (Muatasim 2)	--	Ahmed / 2
52	REACTORS 1.4M3 MONEL	HC TOTALLY 4 W.E.T	1985-86	N.A	185/3/85	BROKEN	1985	PILOT plant 3 (Muatasim 1)	--	General
53	REACTORS 1.4M3 MONEL	W.E.T	1985-86	N.A	185/3/85	IN SERVICE	1985	IBNBAYTAR	1757	General
54	REACTORS 1.4M3 MONEL	W.E.T	1985-86	N.A	185/3/85	IN SERVICE	1985	S.E.FOR VEGETABLE OIL.	--	General

55	REACTORS 1.4M3 MONEL	W.E.T	1985-86	N.A	185/3/85	IN SERVICE	1985	S.E.FOR VEGETABLE OIL	--	General
	TOTALLY 4									
56	MONEL REACTORS 3M3 TEFEZEL	PILOT PLANT	1984	GERMANY	31/3/84	DESTROYED	1984	Hydrolysis Plant(Muatasi m4)	1533	Iesa
57	REACTORS 3M3 TEFEZEL	PILOT PLANT	1984	GERMANY	31/3/84	DAMAGED	1984	In castor oil plant Falluja 3 (used before in Muatasim4/19 87)	1935	Iesa
	TOTALLY 2									
58	TEFEZEL REACTORS PTFE(TEFL ON)1.5M3	--	--	--	--	IN SERVICE	--	IBN BAYTAR	1764	General
59	REACTORS PTFE(TEFL ON)1.5M3	--	--	--	--	IN SERVICE	--	IBN BAYTAR	1758	General
	TOTALLY 2									
60	TEFLON HEAT EXCHANG ERS 0.5X0.5X3 M .15M2 GRAPHITE	NEUBURGE R	1987	SIGRIE	315/3/87	IN SERVICE	1987	Brake fluid building,behin d far	1707	General
61	HEAT EXCHANG ERS 0.5X0.5X3 M .15M2 GRAPHITE	NEUBURGE R	1987	SIGRIE	315/3/87	IN SERVICE	1987	end of storage inside container Brake fluid building, behind far	1708	General
								end of storage inside container		

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62	HEAT EXCHANG ERS 0.5X0.5X3 M .15M2 GRAPHITE	NEUBURGE R	1987	SIGRIE	315/3/87	BRAND NEW	1987	Scrap yard	1725	General
63	HEAT EXCHANG ERS 0.5X0.5X3 M .15M2 GRAPHITE	NEUBURGE R	1987	SIGRIE	315/3/87	BRAND NEW	1987	Scrap yard	1727	General
64	HEAT EXCHANG ERS 0.5X0.5X3 M .15M2 GRAPHITE	NEUBURGE R	1987	SIGRIE	315/3/87	BRAND NEW	1987	Scrap yard	1728	General
65	HEAT EXCHANG ERS 0.5X3.5M, 25M2 GRAPHITE	W.E.T	1984-86	LA CARBONNE, LORRANA	1187/3/84	IN SERVICE	1984	Brake fluid formulation building	1703	General
66	HEAT EXCHANG ERS 0.5X4M, 25M2 GRAPHITE	W.E.T	1984-86	LA CARBONNE, LORRANA	1187/3/84	BRAND NEW	1984	Storage area 10m east of phenol plant	1570	General
67	HEAT EXCHANG ERS 0.5X6M, 50M2 GRAPHITE	W.E.T	1984-86	LA CARBONNE, LORRANA	1187/3/84	IN SERVICE	1984	Brake fluid formulation behind the end of storage area inside containe	1705	General

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68	HEAT EXCHANG ERS 25M2	W.E.T	1984-86	LA CARBONNE, LORRANA	1187/3/84	BRAND NEW	1984	Scrap yard	1729	General
69	GRAPHITE HEAT EXCHANG ERS 25M2	W.E.T	1984-86	LA CARBONNE, LORRANA	1187/3/84	BRAND NEW	1984	Scrap yard	1734	General
70	GRAPHITE HEAT EXCHANG ERS 25M2	W.E.T	1984-86	LA CARBONNE, LORRANA	1187/3/84	USED BEFORE	1984	DMPH Plant	1502	General
71	GRAPHITE HEAT EXCHANG ERS 25.3M2	W.E.T	1984-86	ARATEBAN	1187/3/84	USED BEFORE	1984	Stam plant(DMMP) (Dhaa)	1669	General
72	GRAPHITE HEAT EXCHANG ERS 10M2	W.E.T	1984-86	VICARB	1187/3/84	BRAND NEW	1984	Scrap yard	1737	General
73	GRAPHITE HEAT EXCHANG ERS 10M2	W.E.T	1984-86	VICARB	1187/3/84	BRAND NEW	1984	Scrap yard	1738	General
74	GRAPHITE HEAT EXCHANG ERS 10M2	W.E.T	1984-86	VICARB	1187/3/84	PARTIALLY DEST	1984	Scrap yard (used before in Dhaa in 85-1988)	1739	General
75	GRAPHITE HEAT EXCHANG ERS 10M2	W.E.T	1984-86	VICARB	1187/3/84	PARTIALLY DEST	1984	Scrap yard (used before in Dhaa in 85-1988)	1740	General

76	HEAT EXCHANG ERS 10M2	W.E.T	1984-86	VICARB	1187/3/84	PARTIALLY DEST	1984	Scrap yard	1741	General
77	GRAPHITE HEAT EXCHANG ERS 10M2	W.E.T	1984-86	VICARB	1187/3/84	PARTIALLY DEST	1984	Scrap yard	1742	General
78	GRAPHITE HEAT EXCHANG ERS 25M2	W.E.T	1984-86	LA CARBONNE, LORRANA	1187/3/84	USED BEFORE	1984	Incinerator plant used before in	1017	General
79	GRAPHITE HEAT EXCHANG ERS 25M2	W.E.T	1984-86	LA CARBONNE, LORRANA	1187/3/84	USED BEFORE	1984	Incinerator plant	Tahadi 1991 1018	General
80	GRAPHITE HEAT EXCHANG ERS 25M2	W.E.T	1984-86	LA CARBONNE, LORRANA	1187/3/84	USED BEFORE	1984	Incinerator plant(used before in	1019	General
81	HEAT EXCHANG ERS 0.5X3.5M	W.E.T	1984-86	DUKER	1187/3/84	BROKEN	1984	(Muatasim 1 / H3 D4 plant (Muatasim 3)	1834	General
82	GRAPHITE HEAT EXCHANG ERS 0.5X3.5M	W.E.T	1984-86	RICHTER	1187/3/84	BROKEN	1984	MPC plant (Bin Hayan 2)		General
	GRAPHITE 25 M2									

83	HEAT EXCHANG ERS 0.5X6 M	W.E.T	1984-86	PFAUDLER	1187/3/84	BROKEN	1984	Mustard gas (Bin Hayan 1)	1850	General
84	GRAPHITE 50 M2 HEAT EXCHANG ERS 0.5X6 M	W.E.T	1984-86	PFAUDLER	1187/3/84	BROKEN	1984	Nerve gas (Muatasim 4)	1537	General
85	GRAPHITE 50 M2 HEAT EXCHANG ERS 0.6X1.5M	W.E.T	1984-86	PFAUDLER	1187/3/84	BROKEN	1984	Thionyl plant (Al-Mamun)		General
TOTALLY 26										
86	GRAPHITE 15 M2 HEAT EXCHANG ERS 0.4X3M, 20M2	WET	1987	CABOT	7/3/87	IN SERVICE	1986	Storage area 50 m south west of phenol plant	1567	General
87	HC HEAT EXCHANG ERS 0.4X3M, 20M2	WET	1987	CABOT	7/3/87	IN SERVICE	1986	phenol plant(used before in Tahadi 1990)	1568	General
88	HC HEAT EXCHANG ERS 0.4X3M, 20M2	WET	1987	CABOT	7/3/87	USED BEFORE	1986	DMPH Plant	1645	General

89	HEAT EXCHANG ERS 0.3X1M HC ~1.5 M2	WET	1987	QUAST	7/3/87	BROKEN	1987	D4 plant (Muatasim3)	General
90	HEAT EXCHANG ERS 0.3X1.2M HC ~1.5 M2	WET	1987	QUAST	7/3/87	BROKEN	1987	MPC plant (Bin Hayan 2)	General
91	HEAT EXCHANG ERS 0.3X1.6M HC ~2 M2	WET	1987	QUAST	7/3/87	USED BEFORE	1987	Stam plant (Dihaa)	General
92	HEAT EXCHANG ERS 0.3X1.6M HC ~2 M2	WET	1987	QUAST	7/3/87	BROKEN	1987	Stam plant (Dihaa)	General
93	HEAT EXCHANG ERS 0.3X2M HC ~ 2.5 M2	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	Mustard gas (Bin Hayan 1)	Ahmed
94	HEAT EXCHANG ERS 0.4X1.5M HC ~ 7.5 M2	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	Nerve gas (Muatasim 4)	Ahmed

95	HEAT EXCHANG ERS 0.4X3 M HC 20 M2	PILOT PLANT	1983	QUAST	869/3/82	DESTROYED	1982	DF Plant (Muatasim 2)	1517	Ahmed
96	HEAT EXCHANG ERS 0.4X3 M HC 20 M2	PILOT PLANT	1983	QUAST	869/3/82	DESTROYED	1982	DF Plant (Muatasim 2)	1518	Ahmed
97	HEAT EXCHANG ERS 0.4X3 M HC 20 M2	PILOT PLANT	1983	QUAST	869/3/82	DESTROYED	1982	DF Plant (6) (Muatasim 2)	1519	Ahmed 1
98	HEAT EXCHANG ERS 0.3MX1M C HC ~ 1.5 M2	PILOT PLANT	1983	QUAST	869/3/82	DESTROYED	1982	DF Plant (6) (Muatasim 2)	1520	Ahmed 1
99	HEAT EXCHANG ERS 2.5M2 HC	PILOT PLANT	1983	QUAST	869/3/82	DESTROYED	1982	DF Plant (7) (Muatasim 2)	1521	Ahmed 2
100	HEAT EXCHANG ERS 2.5M2 HC	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	DF Plant (7) (Muatasim 2)		Ahmed
101	HEAT EXCHANG ERS 2.5M2 HC	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	DF Plant (6) (Muatasim 2)		Ahmed
102	HEAT EXCHANG ERS 2.5M2 HC	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	DF Plant (6) (Muatasim 2)		Ahmed

103	HEAT EXCHANG ERS 5 M2 IIC	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	Thionyl plant (Al-Mamun)	Ahmed
	TOTALLY 18								
104	HEAT EXCHANG ERS 4M2 GLASS LINED	I.T	1984	PFAUDLER	1651/3/84	BRAND NEW	1984	Scrap Yard	General
105	HEAT EXCHANG ERS 8M2 GLASS LINED	I.T	1984	PFAUDLER	1651/3/84	BRAND NEW	1984	Scrap Yard	General
106	HEAT EXCHANG ERS 8M2 GLASS LINED	I.T	1984	PFAUDLER	1651/3/84	BRAND NEW	1984	Scrap Yard	General
107	HEAT EXCHANG ERS 12M2 GLASS LINED	I.T	1984	PFAUDLER	1651/3/84	BRAND NEW	1984	Scrap Yard	General
108	HEAT EXCHANG ERS 12M2 GLASS LINED	I.T	1984	PFAUDLER	1651/3/84	BROKEN	1984	D4 Plant (Muatasim 3)	General
109	HEAT EXCHANG ERS 12M2 GLASS LINED	I.T	1984	PFAUDLER	1651/3/84	USED BEFORE	1984	Storage area /Falluja2	General
	TOTALLY 6								

110	CONDENS ER 20 M2 GLASS LINED	WET	1984-86	PFAUDLER	1187/3/84	BROKEN	1984	Thionyl plant (Al-Mamum)	General
111	CONDENS ER 20 M2 GLASS LINED	WET	1984-86	PFAUDLER	1187/3/84	BROKEN	1984	Thionyl Plant (Al-Mamum)	General
112	CONDENS ER 5 M2 HC	TOTALLY 2 WET	1987	CABOT	7/3/87	IN SERVICE	1986	Phenol plant	General
113	CONDENS ER 5 M2 HC	WET	1987	CABOT	7/3/87	IN SERVICE	1986	Phenol plant	General
114	CONDENS ER 5 M2 HC	WET	1987	CABOT	7/3/87	IN SERVICE	1986	Phenol plant	General
115	CONDENS ER 20 M2 HC	WET	1987	GERMANY	7/3/87	USED BEFORE	1986	DMPH plant	General
116	CONDENS ER 7.5M2 HC	LENHARDT	1984	GERMANY	1315/3/84	USED BEFORE	1983	DMPH plant(from Muatasim 2/1987)	General
117	CONDENS ER 20 M2 HC	NEUBUGER	1985	GERMANY	250/3/85	INSERVICE	1985	Production plant(used before in	General
118	CONDENS ER 20 M2 HC	NEUBUGER	1985	GERMANY	250/3/85	USED BEFORE	1985	Tahadi 1990) PCL3 Distillation	General
119	CONDENS ER 20 M2 HC	WET	1987	GERMANY	7/3/87	USED BEFORE	1986	Stam plant (Dihaa)	General
120	CONDENS ER 20 M2 HC	WET	1987	GERMANY	7/3/87	USED BEFORE	1986	Stam plant (Dihaa)	General

121	CONDENS ER 20 M2 HC	WET	1987	CABOT	7/3/87	IN SERVICE	1986	Phenol plant(used before in	1003	General
122	CONDENS ER 20 M2 HC	WET	1987	GERMANY	7/3/87	USED BEFORE	1986	Tahadi 1990) PC13 Distillation	1646	General
123	CONDENS ER 7.5 HC	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	DF plant (Muatasim 2)		Ahmed
124	CONDENS ER 7.5 HC	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	DF plant (Muatasim 2)		Ahmed
125	CONDENS ER 20 M2 HC	IT	1985	GERMANY	1651/3/84	BROKEN	1984	MPC plant (Bin Hayan 2)		Mohamed
126	CONDENS ER 20 M2 HC	IT	1985	GERMANY	1651/3/84	BROKEN	1984	MPC plant (Bin Hayan 2)		Mohamed
127	CONDENS ER 7.5 HC	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	DF plant(Muatasi m2)(used in H3)		Ahmed
128	CONDENS ER 5 M2 HC	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	Thionyl plant (Al-Mamun)		Ahmed
129	CONDENS ER 20 M2 HC	PILOT PLANT	1983	QUAST	869/3/82	DESTROYED	1982	Sarin plant (Muatasim 4)	1534	Ahmed
130	CONDENS ER 20 M2 HC	NEUBURGE R	1985	GERMANY	250/3/85	BROKEN	1985	Stamp plant (Dihaa)		General
131	CONDENS ER 1.5M2 HC(Trap)	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	DF plant (Muatasim 2)		Ahmed
132	CONDENS ER 1.5M2 HC(Trap)	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	DF plant (Muatasim 2)		Ahmed

133	CONDENS ER 20 M2 HC	NEUBURGE R	1986	GERMANY	250/3/85	BROKEN	1985	Stamp plant (Dihaa)	General
134	CONDENS ER 20 M2 HC	WET	1987	GERMANY	7/3/87	BROKEN	1986	Thionyl plant (Al-Mamun)	
135	CONDENS ER 20 M2 HC	PILOT PLANT	1983-84	QUAST	869/3/82	DESTROYED	1982	Incinerator(us ed before in	Ahmed
136	CONDENS ER 5 M2 HC	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	Tahadi 1990) Thionyl plant (Al-Mamun)	Ahmed
		TOTALLY 25							
137	CONDENS ER 25M2 G	PILOT PLANT	1984	SCHOUT	1073/3/83	BROKEN	1982	D4 plant (Muatasim 3)	Mohamed
138	CONDENS ER 25M2 G	PILOT PLANT	1984	SCHOUT	1073/3/83	BROKEN	1982	D4 plant (Muatasim 3) ***	Mohamed
139	CONDENS ER 25M2 G	PILOT PLANT	1984	SCHOUT	1073/3/83	BROKEN	1982	D4 plant (Muatasim 3)	Mohamed
140	CONDENS ER 10M2 G	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	Pilot Plant / H3(Muatasim 1)	Ahmed
		TOTALLY 4							
141	COLUMNNS 0.35X3.5M GLASS LINED	PILOT PLANT	1984	DEDIETRICH	1073/3/83	USED BEFORE	1983	DMPH plant	Ani
142	COLUMNNS 0.35X3.5M GLASS LINED	PILOT PLANT	1984	DEDIETRICH	1073/3/83	IN SERVICE	1983	Phenol plant	Ani

143	COLUMNS 1X3 M GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BRAND NEW	1988	Storage area,South of Phenol plant	1554	General
144	COLUMNS 1X1 M GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BRAND NEW	1988	Storage area,South of Phenol plant	1555	General
145	COLUMNS 0.45X3MGL ASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BRAND NEW	1988	Storage area,South of Phenol plant	1556	General
146	COLUMNS 0.8X3M GLASS LINED	I.T	1985	PFAUDLER	1651/3/84	USED BEFORE	1984	PC13 distillation	1644	General
147	COLUMNS 0.8X3M GLASS LINED	I.T	1985	PFAUDLER	1651/3/84	USED BEFORE	1984	PC13 distillation	1647	General
148	COLUMNS 0.35X4M GLASS LINED	PILOT PLANT	1984	DEDIETRICH	1073/3/83	USED BEFORE	1983	Stam plant (DMMP) (Dihaa)	1664	Ani
149	COLUMNS 0.35X5M GLASS LINED	PILOT PLANT	1983	SCHOUT	1073/3/83	USED BEFORE	1983	Stam plant (DMMP) (Dihaa)	1665	Mohamed
150	COLUMNS 0.8X3.5M GLASS LINED	PILOT PLANT	1983	SCHOUT	1073/3/83	BRAND NEW	1983	West of first storage building	1685	Mohamed
151	COLUMNS 0.6X3M GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	BRAND NEW	1987	West of first storage building	1686	General
152	COLUMNS 0.6X3M GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	BRAND NEW	1987	West of first storage building	1687	General

153	COLUMNS 0.8X3M GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	BRAND NEW	1987	W- stor.area,10m south of ph.plant	1690	General
154	COLUMNS 0.8X3.5M	PROTIC	1987	DEDIETRICH	2517/3/87	BRAND NEW	1987	W- stor.area,10m south of ph.plant	1691	General
155	GLASS LINED COLUMNS 0.8X3.5M	PROTIC	1987	DEDIETRICH	2517/3/87	BRAND NEW	1987	W- stor.area,10m south of ph.plant	1692	General
156	GLASS LINED COLUMNS 0.8X2.6M	PROTIC	1987	DEDIETRICH	2517/3/87	BRAND NEW	1987	W- stor.area,10m south of ph.plant	1693	General
157	GLASS LINED COLUMNS 0.8X2.6M	PROTIC	1987	DEDIETRICH	2517/3/87	BRAND NEW	1987	W- stor.area,10m south of ph.plant	1694	General
158	GLASS LINED COLUMNS 0.8X3.5M	PROTIC	1987	DEDIETRICH	2517/3/87	BRAND NEW	1987	W- stor.area,10m south of ph.plant	1695	General
159	GLASS LINED COLUMNS 0.8X2.5M	PROTIC	1987	DEDIETRICH	2517/3/87	BRAND NEW	1987	W- stor.area,10m south of ph.plant	1696	General
	GLASS LINED									

160	COLUMNS 0.8X2.5M	PROTIC	1987	DEDIETRICH	2517/3/87	BRAND NEW	1987	W- stor.area,10m south of ph.plant	1697	General
161	GLASS LINED COLUMNS 0.8X3M	PROTIC	1987	DEDIETRICH	2517/3/87	IN SERVICE	1987	Brake fluid formulation building (storage area)	1701	General
162	GLASS LINED COLUMNS 0.8X3.5M	PROTIC	1987	DEDIETRICH	2517/3/87	IN SERVICE	1987	Brake fluid formulation building (storage area)	1702	General
163	GLASS LINED COLUMNS 0.6X2.5M	PROTIC	1987	DEDIETRICH	2517/3/87	IN SERVICE	1985	Brake fluid formulation building Behindthe end of storage area	1704	General
164	COLUMNS 0.6X2.5M	PROTIC	1987	DEDIETRICH	2517/3/87	IN SERVICE	1985	Brake fluid formulation building	1706	General
165	GLASS LINED COLUMNS 0.8X9.5M	PROTIC	1987	DEDIETRICH	2517/3/87	BRAND NEW	1987	Behindthe end of storage area South of multi purpose building	1711	General
166	GLASS LINED COLUMNS 0.5X1.8M	PROTIC	1987	DEDIETRICH	2517/3/87	BRAND NEW	1987	South of multi purpose building	1713	General

167	COLUMNS 0.6X2.5M GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	BRAND NEW	1987	South of multi purpose building	1714	General
168	COLUMNS 0.5X1.8M GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BRAND NEW	1987	South of multi purpose building	1715	General
169	COLUMNS 0.4X3M GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BRAND NEW	1985	Scrap Yard	1723	General
170	COLUMNS 0.4X3M GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BRAND NEW	1985	Scrap Yard	1724	General
171	COLUMNS 0.6X2.5M GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BRAND NEW	1985	Scrap Yard	1730	General
172	COLUMNS 0.3X3M GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BRAND NEW	1985	Scrap Yard	1735	General
173	COLUMNS 0.3X3M GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BRAND NEW	1985	Scrap Yard	1736	General
174	COLUMNS 0.4X4M GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BRAND NEW	1987	Scrap Yard	1747	General
175	COLUMNS GLASS LINED 0.8X3M	IT	1985	PFAUDLER	1651/3/84	BROKEN	1984	MPC PLANT (Bin Hayan 2)	1843	General

176	COLUMNS GLASS LINED 0.8X3M	BROKEN	MPC PLANT (Bin Hayan 2)				
177	COLUMNS GLASS LINED 0.4X4M	BROKEN	STAM PLANT (Dihaa)				
178	COLUMNS GLASS LINED 0.4X4M	BROKEN	STAM PLANT (Dihaa)				
179	COLUMNS GLASS LINED 0.35X4M	Thionyl Plant (Al-Mamun)	BROK EN				
180	COLUMNS GLASS LINED	DEDIETRICH	IBN BYTAR	1761	General		
181	COLUMNS GLASS LINED	SCHOUT	PILOT PLANT	1678	PILOT PLANT		
182	COLUMNS GLASS LINED	SCHOUT	PILOT PLANT (Muatasim 1)	1541	PILOT PLANT		
183	COLUMNS GLASS LINED	SCHOUT	PILOT PLANT (Muatasim 1)	1542	PILOT PLANT		
184	COLUMNS GLASS LINED	SCHOUT	PILOT PLANT (Muatasim 1)	1543	PILOT PLANT		
185	COLUMNS GLASS LINED 0.4X4M	BROKEN	STAM PLANT (Dihaa)				
186	COLUMNS GLASS LINED 0.4X4M	SCHOUT	D4 Plant (Muatasim 3)				Mohamad

187	COLUMNS 0.4 X4M G	NEUBURGE R	1988	SCHOUT	315/3/87	BROKEN	1987	D4 plant (Muatasim 3)	General
	GLASS LINED	TOTALLY 47	-	-	-	-	-	-	-
188	COLUMNS HC 0.3X3.5M	PILOT PLANT	1983	GERMANY	869/3/82	USED BEFORE	1982	DMPH Plant(from Muatasim 2 1987)	Ahmed
189	COLUMNS HC 0.3X3.5M	PILOT PLANT	1983	GERMANY	869/3/82	DESTROYED	1982	DF plant (Muatasim 2)	Ahmed
190	COLUMNS HC 0.3X3.5M	PILOT PLANT	1983	GERMANY	869/3/82	BRAND NEW	1982	scrapyard Falluja /3	Ahmed
191	COLUMNS HC 0.3X3.5M	PILOT PLANT	1983	GERMANY	869/3/82	DESTROYED	1982	DF plant (Muatasim 2)	Ahmed
192	COLUMNS HC 0.3X3.5M	PILOT PLANT	1983	GERMANY	869/3/82	USED BEFORE	1982	DMPH PLANT(from Muatasim 2 1987)	Ahmed
		TOTALLY 5	-	-	-	-	-	-	-
193	COLUMNS 0.5X6M R.L	NEUBURGE R	1988	GERMANY	315/3/87	BROKEN	1987	MPC plant (Bin Hayan 2)	General
		TOTALLY 1	-	-	-	-	-	-	-
194	COLUMNS 0.35X3.5M HALLAR	NEUBURGE R	1988	GERMANY	315/3/87	BRAND NEW	1987	Storage area 10m south of phenol plant Falluja/2	General
195	COLUMNS 0.35X3.5M HALLAR	NEUBURGE R	1988	GERMANY	315/3/87	BRAND NEW	1987	Ditto	General
196	COLUMNS 0.35X3.5M HALLAR	NEUBURGE R	1988	GERMANY	315/3/87	BROKEN	1987	Tahadi	General

197	COLUMNS 0.35X3.5M HALLAR	NEUBURGIE R	1988	GERMANY	315/3/87	BRAND NEW	1987	Storage area 10m south phenol plant	1699	General
198	COLUMNS 0.35X3.5M HALLAR	NEUBURGIE R	1988	GERMANY	315/3/87	BRAND NEW	1987	Storage area south phenol plant	1577	General
199	COLUMNS 0.35X3.5M HALLAR	NEUBURGIE R	1988	GERMANY	315/3/87	BRAND NEW	1987	Storage area south phenol plant	1560	General
200	COLUMNS 0.35X3.5M HALLAR	NEUBURGIE R	1988	GERMANY	315/3/87	BRAND NEW	1987	west of first storage building	1684	General
201	COLUMNS 0.45X3 M HALLAR	NEUBURGIE R	1986	GOOD BROT	666/3/86	BRAND NEW	1986	Storage area south phenol plant	1558	General
	TOTALLY 8		-	-	-					
202	HALLER TANKS 0.5 M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BRAND NEW	1985	W- sto.area 1,10m south of ph.plant	1689	General
203	TANKS 0.5 M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	USED BEFORE	1987	phenol plant	1551	General
204	TANKS,RE C V.1.4M3	PROTIC	1988	DEDIETRICH	2517/3/87	USED BEFORE	1987	PCI3 distillation plant	1638	General
205	GLASS LINED TANKS,RE C V.1.4M3	PROTIC	1988	DEDIETRICH	2517/3/87	USED BEFORE	1987	PCI3 distillation plant	1639	General
206	GLASS LINED TANKS,RE C V.1.4M3	PROTIC	1988	DEDIETRICH	2517/3/87	USED BEFORE	1987	PCI3 distillation plant	1640	General
	GLASS LINED									

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207	TANKS,RE C.V.1.4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	USED BEFORE	1987	PCI3 distillation plant	1641	General
208	TANKS 1.4 M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	USED BEFORE	1987	phenol plant	1548	General
209	TANKS 1.4 M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	USED BEFORE	1987	phenol plant	1549	General
210	TANKS 1.4 M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	USED BEFORE	1987	phenol plant	1552	General
211	TANKS 2 M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BRAND NEW	1987	W- sto.area 1,10m south of ph.plant	1698	General
212	TANKS 2 M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BRAND NEW	1987	Str.area 10m south of phenol plant	1562	General
213	TANKS 0.5 M3 GLASS LINED	NEUBURGE R	1987	DEDIETRICH	315/3/87	BROKEN	1987	Thionyl Plant (Al-Mamun)	1958	General
214	TANKS 2 M3 GLASS LINED	PROTIC	1988	DEDIETRICH	1217/3/87	BROKEN	1987	MPC PLANT (Bin Hayan 2)		General
215	TANKS 2 M3 GLASS LINED	PROTIC	1988	DEDIETRICH	1217/3/87	BROKEN	1987	MPC PLANT (Bin Hayan 2)		General
216	TANKS 2 M3 GLASS LINED	PROTIC	1988	DEDIETRICH	1217/3/87	BROKEN	1987	Thionyl Plant (Al-Mamun)		General
217	TANKS 0.5 M3 GLASS LINED	-	1983-85	-	N.A	USED BEFORE		Stam PLANT(DM MP) (Dihaa)	1658	N.A
218	TANKS 0.8 M3 GLASS LINED	NEWBURGE R	1986	DEDIETRICH	666/3/86	USED BEFORE	1985	Stam PLANT(DM MP) (Dihaa)	1659	General

219	TANKS 1.4 M3 GLASS LINED	NEWBURGE R	1986	DEDIETRICH	666/3/86	USED BEFORE	1985	DMPH Plant	1511	General
220	TANKS 0.8 M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1987	Nerve gas (Mutasim 4)		General
221	TANKS 0.8 M3 GLASS LINED	-	1983-85	-	N.A	BROKEN		Thionyl Plant (Al-Mamun)		N.A
222	TANKS 10 M3 GLASS LINED	-	1983-85	-	N.A	BROKEN		Thionyl Plant (Al-Mamun)		N.A
223	TANKS 0.8 M3 GLASS LINED	-	1983-85	-	N.A	BROKEN		PILOT PLANT 3 (Mutasim 1)		N.A
224	TANKS 0.5 M3 GLASS LINED	NEW BURGER	1986	DEDIETRICH	666/3/86	USED BEFORE	1985	Stam PLANT (Dihaa)	1660	General
225	TANKS 0.8 M3 GLASS LINED	NEU BURGER	1986	DEDIETRICH	666/3/86	USED BEFORE	1985	Stam PLANT (Dihaa)	1663	General
226	TANKS 1.4 M3 GLASS LINED	NEU BURGER	1986	DEDIETRICH	666/3/86	BROKEN	1985	DMMP PLANT		General
227	TANKS 1.4 M3 GLASS LINED	NEU BURGER	1985	DEDIETRICH	250/3/85	BROKEN	1985	DMMP PLANT		General
228	TANKS 1.4 M3 GLASS LINED	NEU BURGER	1985	DEDIETRICH	250/3/85	BROKEN	1985	DMMP PLANT		General
229	TANKS 2 M3 GLASS LINED	NEU BURGER	1985	DEDIETRICH	250/3/85	BROKEN	1985	DMMP PLANT		General
230	TANKS 0.5 M3 GLASS LINED	NEU BURGER	1985	DEDIETRICH	250/3/85	BROKEN	1985	Thionyl Plant (Al-Mamun)		General

231	TANKS 0.5 M3 GLASS LINED	NEW BURGER	1985	DEDIETRICH	250/3/85	BROKEN	1985	Thionyl Plant (Al-Mamun)	General
	TOTALY 30		-						
232	GLASS LINED TANKS 2M3	PROTIC	1988	DEDIETRICH	2517/3/87	USED BEFORE	1987	Dichloro Benzen	General
233	GLASS LINED TANKS 3M3	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1987	D4 plant (Muatasim 3)	General
234	GLASS LINED TANKS 3M3	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1987	MPC plant(Bin Hayan 2)	General
235	GLASS LINED TANKS 3M3	QTL	1985	DEDIETRICH	1250/3/84	BROKEN	1984	Stam plant(Dihaa)	Mohamad
236	GLASS LINED TANKS 3M3	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1987	Thionyl Plant (Al-Mamun)	General
	TOTALY 6		-						
237	GLASS LINED TANKS 4M3	PROTIC	1988	DEDIETRICH	2517/3/87	IN SERVICE	1986	Phenol PLANT **** 1009/1553 General	
238	GLASS LINED TANKS 4M3	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1988	D4 PLANT (Muatasim 3)	General

239	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1988	D4 PLANT (Muatasim 3)	General
240	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1988	D4 PLANT (Muatasim 3)	General
241	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1988	MPC PLANT (Bin Hayan 2)	General
242	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1988	MPC PLANT (Bin Hayan 2)	General
243	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	USED BEFORE	1988	Stam PLANT (Dihaa)	General
244	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1988	Thionyl plant (Al-Mamun)	General
245	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1988	Thionyl Plant (Al-Mamun)	General
246	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1987	Thionyl Plant (Al-Mamun)	General
247	TANKS 4M3 GLASS LINED	NEUBURGE R	1987	DEDIETRICH	315/3/87	BROKEN	1987	Pilot PLANT 3 (Muatasim I)	General
248	TANKS 4M3 GLASS LINED	NEUBURGE R	1987	DEDIETRICH	315/3/87	USED BEFORE	1987	DMPH Plant	General

249	TANKS 4M3 GLASS LINED	NEUBURGE R	1987	DEDIETRICH	315/3/87	USED BEFORE	1987	DMPH Plant	1515	General
250	TANKS 4M3 GLASS LINED	NEUBURGE R	1987	DEDIETRICH	315/3/87	IN SERVICE	1987	Production Building 3	1576	General
251	TANKS 4M3 GLASS LINED	NEUBURGE R	1987	DEDIETRICH	315/3/87	IN SERVICE	1987	Production Building 3	1577	General
252	TANKS 4M3 GLASS LINED	NEUBURGE R	1987	DEDIETRICH	315/3/87	USED BEFORE	1987	Stam PLANT (Dihaa)	1671	General
253	TANKS 4M3 GLASS LINED	NEUBURGE R	1987	DEDIETRICH	315/3/87	IN SERVICE	1987	AL-QAQA	1907	MCI
254	TANKS 4M3 GLASS LINED	NEUBURGE R	1987	DEDIETRICH	315/3/87	IN SERVICE	1987	AL-QAQA		MCI
255	TANKS 4M3 GLASS LINED	NEUBURGE R	1987	DEDIETRICH	315/3/87	IN SERVICE	1987	AL-QAQA		MCI
		TOTALLY 19	-	-						
256	TANKS 6M3 GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	USED BEFORE	1987	PC13 distillation	1648	General
257	TANKS 6M3 GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	BROKEN	1987	D4 PLANT (Muatasim 3)		General

258	TANKS 6M3 GLASS LINED	I.T	1985	PFAUDLER	1651/3/84	BROKEN	1984	MPC PLANT(Bin Hayan 2)	General
259	TANKS 6M3 GLASS LINED	I.T	1985	PFAUDLER	1651/3/84	BROKEN	1984	Thionyl Plant (Al-Mamun)	General
	TOTALLY 4		-						
260	GLASS LINED TANKS 10M3	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1987	Tahadi	General
261	GLASS LINED TANKS 10M3	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1987	Muster plant (Bin Hayan 1)	General
262	GLASS LINED TANKS 10M3	PROTIC	1988	DEDIETRICH	2517/3/87	USED BEFORE	1987	DMPH PLANT	General
263	GLASS LINED TANKS 10M3	PROTIC	1988	DEDIETRICH	2517/3/87	BRAND NEW	1987	Stor.area at eastern corner of site	General
	TOTALLY 4		-						
264	GLASS LINED TANKS 20M3	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1987	Mustard PLANT (Bin Hayan 1)	General
265	GLASS LINED TANKS 20M3	PROTIC	1988	DEDIETRICH	2517/3/87	BROKEN	1987	Production building/4	General

266	TANKS 20M3 GLASS LINED	NEU BURGER	1985	DEDIETRICH	250/3/85	BROKEN	1985	PCI3 production PLANT(use in mustard plant)	General
	GLASS LINED	TOTALLY 3	-	-	-	-	-	-	-
267	VESSEL 2 M3 HC	LENHARDT	1984	QUAST	1315/3/84	IN SERVICE	1984	Pesticide PLANT (Falluja 3)	General
268	VESSEL 6 M3 HC	PILOT PLANT	1983	QUAST	869/3/82	BROKEN	1982	DF PLANT(muata sim 2)	Ahmed
269	VESSEL 8 M3 HC	NEUBURGE R	1985	QUAST	250/3/85	IN SERVICE	1985	Production PLANT (Falluja 3)	General
270	VESSEL 8 M3 HC	LENHARDT	1984	QUAST	1315/3/84	IN SERVICE	1984	Production building / 3	General
271	VESSEL 2 M3 S.S	TOTALLY 4 LENHARDT	1984	QUAST	1315/3/84	BROKEN	1984	DF PLANT (Muatasim 2)	General
272	VESSEL 2 M3 S.S	LENHARDT	1984	QUAST	1315/3/84	BROKEN	1984	DF PLANT (Muatasim 2)	General
273	VESSEL 2 M3 S.S	LENHARDT	1984	QUAST	1315/3/84	BROKEN	1984	DF PLANT (Muatasim 2)	Ahmed
274	VESSEL 2 M3 S.S	PILOT PLANT	1983	QUAST	899/3/82	BROKEN	1982	DF PLANT (Muatasim 2)	Ahmed
275	VESSEL 5 M3	TOTALLY 4 WET	1987	GERMANY	423/3/86	USED BEFORE	1986	DMPH Plant	PCI3&POCI3
276	HALLAR VESSEL 3 M3	WET	1987	GERMANY	423/3/86	IN SERVICE	1986	FeCl3 PLANT Falluja 2	PCI3&POCL3
277	HALLAR VESSEL 5 M3	NEWBURGE R	1986	GERMANY	666/3/86	BROKEN	1985	Thionyl Plant (Al-Mamun)	General
278	HALLAR VESSEL 5 M3 HALLAR	WET	1986	N.A	N.A	BROKEN	N.A	Thionyl Plant (Al-Mamun)	N.A

279	VESSEL 5 M3 HALLAR	NEWBURGE R	1986	GERMANY	666/3/86	BROKEN	1986	DMPH Plant	General
280	VESSEL 2.6 M3 HALLAR	N.A	N.A	LITERCL FRANCE N.A	1987	Storage Area Falluja 2	NEW	1681	N.A
281	VESSEL 5 M3 HALLAR	NEWBURGE R	1986	GERMANY	666/3/86	NEW	1986	Storage Area Falluja 3	General
282	VESSEL 5 M3 HALLAR	NEWBURGE R	1986	GERMANY	666/3/96	NEW	1986	Storage Area Falluja 3	General
283	VESSEL 5 M3 HALLAR	NEWBURGE R	1986	GERMANY	666/3/86	NEW	1986	Storage Area Falluja 3	General
284	VESSEL 5 M3 HALLAR	NEWBURGE R	1986	GERMANY	666/3/86	NEW	1986	Storage Area Falluja 3	General
285	VESSEL 5 M3 HALLAR	N.A	N.A	N.A	N.A	BROKEN	N.A	Sarine PLANT (Muatasim 4)	N.A
286	VESSEL 0.8 M3 TEFZEL	PILOT PLANT	1985	N.A	N.A	BROKEN	N.A	MPC PLANT (Bin Hayan-2)	N.A
287	VESSEL 0.8 M3 TEFZEL	PILOT PLANT	1985	N.A	N.A	BROKEN	N.A	MPC PLANT (Bin Hayan-2)	N.A
288	VESSEL 0.8 M3 TEFZEL	PILOT PLANT	1985	N.A	N.A	BROKEN	N.A	MPC PLANT (Bin Hayan-2)	N.A
289	VESSEL 0.8 M3 TEFZEL	PILOT PLANT	1985	N.A	N.A	BROKEN	N.A	MPC PLANT (Bin Hayan-2)	N.A
290	TEFZEL VESSEL 3 M3 GLASS LINED	TOTALLY 11 QTL	- 1985	- DEDIEERICH	- 1250/3/84	- IN SERVICE	- 1984	IBN BAYTAR	Mohamad
291	VESSEL 2 M3 GLASS LINED	PROTIC	1988	DEDIEERICH	2517/3/87	IN SERVICE	1987	IBN BAYTAR	General

292	VESSEL 2 M3 GLASS LINED	PROTIC	1988	DEDIEERICH	2517/3/87	IN SERVICE	1987	IBN BAYTAR	1763	General
293	VESSEL 1.4 M3 GLASS LINED	NEUBURGE R	1986	DEDIEERICH	666/3/86	IN SERVICE	1985	IBN BAYTAR	1760	General
294	VESSEL 0.8 M3 GLASS LINED	NEUBURGE R	1987	DEDIETRICH	315/3/87	BROKEN	1987	D4 PLANT (Muatasim 3)	1853	General
295	VESSEL 0.8 M3 GLASS LINED	NEUBURGE R	1987	DEDIETRICH	315/3/87	BROKEN	1987	D4 PLANT (Muatasim 3)	1836	General
296	VESSEL 0.8 M3 GLASS LINED	NEUBURGE R	1987	DEDIETRICH	315/3/87	BROKEN	1987	D4 PLANT (Muatasim 3)		General
297	VESSEL 0.8 M3 GLASS LINED	NEUBURGE R	1987	DEDIETRICH	315/3/87	BROKEN	1987	D4 PLANT (Muatasim 3)		General
		TOTALLY 8	-	-						
298	GLASS LIND TANK 6 M3 PVDF	LENHARDT	1984	GERMANY	1315/3/84		1984	DF plant (Muatasim 2)		General
299	TANK 2 M3 PVDF	LENHARDT	1984	GERMANY	1315/3/84		1984	DF plant (Muatasim 2)		General
300	TANK 2 M3 PVDF	LENHARDT	1984	GERMANY	1315/3/84		1984	DF plant (Muatasim 2)		General
301	TANK 4 M3 PVDF	PILOT PLANT	1983	GERMANY	1073/3/83		1982	Falluja-2		Ani
302	TANK 4 M3 PVDF	PILOT PLANT	1983	GERMANY	1073/3/83		1982	Falluja-2		Ani
303	TANK 6 M3 PVDF	PILOT PLANT	1983	GERMANY	899/3/82		1982	DF plant (Muatasim 2)		Ani
304	TANK 6 M3 PVDF	PILOT PLANT	1983	GERMANY	899/3/82		1982	DF plant (Muatasim 2)		Ani
305	TANK 6 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82		1982	DF plant (Muatasim 2)		Ahmed
306	TANK 6 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82		1982	DF plant (Muatasim 2)		Ahmed
307	TANK 6 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82		1982	DF plant (Muatasim 2)		Ahmed

328	TANK 6 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982	Falluja /3	Ahmed
329	TANK 6 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982	Falluja /3	Ahmed
330	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982	Pilot Plant/H3 (Muatasim I)	Ahmed
331	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982	Pilot Plant (Muatasim I)	Ahmed
332	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982	Pilot Plant (Muatasim I)	Ahmed
333	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982	Stam Plant (Dihaa)	Ahmed
334	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982	Stam Plant (Dihaa)	Ahmed
335	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982	Stam Plant (Dihaa)	Ahmed
336	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982	Nerve Gas(Muatasim 4)	Ahmed
337	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982	Nerve Gas(Muatasim 4)	Ahmed
338	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982	Pilot Plant (Muatasim I)	Ahmed
339	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982	Pilot Plant (Muatasim I)	Ahmed
340	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982	Pilot Plant (Muatasim I)	Ahmed
	TOTALLY 43 PVDF		-	-				

* : Used before in Thionyl plant & damaged during construction Thionyl chloride plant consist three unites, Thionyl chloride , MPC and MPF unites were used to produced same batches only from these precursors.

** : Reactor 2.5 M3 (item 19) was used as a buffer in D4 Plant (Muatasim3).

*** : Spare parts for plant.

**** : Two Tag No. on the same tank.

Note : Status (BROKEN) means that the equipments are under debris.

TYPES & QUANTITIES OF PRODUCTION EQUIPMENT PROCURED FOR CW - PROGRAMME 5 FEBRUARY 1986 I.Ahmed Project

NO.	DESCRIPTION OF ITEM	EXPORTER	YEAR OF EXP	MANUFA CT.	I.C NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
1	REACTORS IM3 HC	PILOT PLANT	1983	QUAST	869/3/82	1982	BROKEN	DF plant (6)	1650
2	REACTORS IM3 HC	PILOT PLANT	1983	QUAST	869/3/82	1982	BROKEN	DF plant (6)	1655
3	REACTORS IM3 IIC	PILOT PLANT	1983	QUSAT	869/3/82	1982	BROKEN	DF plant (7)	--
4	REACTORS IM3 HC	PILOT PLANT	1983	QUAST	869/3/82	1982	BROKEN	DF plant (7)	--
5	HEAT EXCHANGERS 0.3X2M HC 2.5 M2	PILOT PLANT	1983	QUAST	869/3/82	1982	BROKEN	Mustard gas	
6	HEAT EXCHANGERS 0.4X1.5M HC 7.5 M2	PILOT PLANT	1983	QUAST	869/3/82	1982	IN SERVICE	Phenol plant	1005
7	HEAT EXCHANGERS 0.4X3.5M HC 20 M2	PILOT PLANT	1983	QUAST	869/3/82	1982	Destroyed	DF Plant	1517
8	HEAT EXCHANGERS 0.4X3.5M HC	PILOT PLANT	1983	QUAST	869/3/82	1982	Destroyed	DF Plant	1518
9	HEAT EXCHANGERS 0.4X3.5M HC	PILOT PLANT	1983	QUAST	869/3/82	1982	Destroyed	DF Plant (6)	1519

10	HEAT EXCHANGERS 0.3MX1M C HC	PILOT PLANT	1983	QUAST	869/3/82	1982	Destroyed	DF Plant (6)	1520
11	HEAT EXCHANGERS HC 2.5M2	PILOT PLANT	1983	QUAST	869/3/82	1982	Destroyed	DF Plant (7)	1521
12	HEAT EXCHANGERS HC 2.5M2	PILOT PLANT	1983	QUAST	869/3/82	1982	BROKEN	Thionyl plant	
13	HEAT EXCHANGERS HC 2.5M2	PILOT PLANT	1983	QUAST	869/3/82	1982	BROKEN	Thionyl plant	
14	HEAT EXCHANGERS HC 2.5M2	PILOT PLANT	1983	QUAST	869/3/82	1982	BROKEN	Thionyl plant	
15	HEAT EXCHANGERS HC	PILOT PLANT	1983	QUAST	869/3/82	1982	IN SERVICE	Phenol plant	1006
16	CONDENSER 7.5 HC	PILOT PLANT	1983	QUAST	869/3/82	1982	BROKEN	D4 plant	
17	CONDENSER 7.5 HC	PILOT PLANT	1983	QUAST	869/3/82	1982	BROKEN	D4 plant	
18	CONDENSER 7.5 HC	PILOT PLANT	1983	QUAST	869/3/82	1982	BROKEN	Stam plant	
19	CONDENSER 7.5 HC	PILOT PLANT	1983	QUAST	869/3/82	1982	BROKEN	Stam plant	
20	CONDENSER HC 20M2	PILOT PLANT	1983	QUAST	869/3/82	1982	DESTROYED	Sarin plant	1534
21	CONDENSER HC	PILOT PLANT	1983	QUAST	869/3/82	1982	BROKEN	DF plant	
22	CONDENSER HC	PILOT PLANT	1983	QUAST	869/3/82	1982	BROKEN	DF plant	
23	CONDENSER HC	PILOT PLANT	1983	QUAST	869/3/82	1982	BROKEN	Pilot Plant	

NO.	DESCRIPTION OF ITEM	EXPORTER	YEAR OF EXP.	MANUFACT.	I.C. NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
24	CONDENSER HC	PILOT PLANT	1983-84	QUAST	869/3/82	1982	DESTROYED	Incinerator	
25	CONDENSER HC	PILOT PLANT	1983	QUAST	869/3/82	1982	BROKEN	Thionyl plant	
26	COLUMNS 0.3X3.5M HC	PILOT PLANT	1983	GERMAN Y	869/3/82	1982	USED BEFORE	DMPH Plant	1505
27	COLUMNS HC 0.3X3.5M	PILOT PLANT	1983	GERMANY	869/3/82	1982	Destroyed	DF plant	1522
28	COLUMNS HC 0.3X3.5M	PILOT PLANT	1983	GERMANY	869/3/82	1982	BRAND NEW	scrap yard Falluja /3	1933
29	COLUMNS HC	PILOT PLANT	1983	GERMANY	869/3/82	1982	Destroyed	DF plant	1523
30	COLUMNS HC	PILOT PLANT	1983	GERMANY	869/3/82	1982	USED BEFORE	DMPH PLANT	1506
31	VESSEL 5 M3 HC	PILOT PLANT	1983	QUAST	869/3/82	1982	IN SERVICE	DF PLANT	
32	VESSEL 2.8 M3 HC	LENHARDT	1984	QUAST	1315/3/84	1984	BROKEN	DF PLANT	
33	VESSEL 2 M3 HC	PILOT PLANT	1983	QUAST	899/3/82	1982	BROKEN	DF PLANT	
34	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982			
35	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982			
36	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982			
37	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982			
38	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982			

39	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
40	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
41	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
42	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
43	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
44	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
45	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
46	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
47	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
48	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
49	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
50	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
51	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
52	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
53	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
54	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
55	TANK 5 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
56	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
57	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982

58	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
59	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
60	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
61	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
62	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982
63	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	869/3/82	1982

2. Mohammed Project

NO.	DESCRIPTION OF ITEM	EXPORTER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
1	REACTORS 1.6M3 GLASS LINED	Q.T.L	1985	DEDIETRICH	1250/3/84	1985	IN SERVICE	Production building 4	1580
2	REACTORS 1.6M3 GLASS LINED	Q.T.L	1985	DEDIETRICH	1250/3/84	1984	BROKEN	MPC plant	--
3	REACTORS 1.6M3 GLASS LINED	Q.T.L	1985	DEDIETRICH	1250/3/84	1984	BROKEN	MPC plant	--
4	REACTORS 1.6M3 GLASS LINED	PILOT PLANT	1984	PFAUDLER	1073/3/83	1983	BROKEN	DF plant (7)	--
5	REACTORS 1.6M3 GLASS LINED	PILOT PLANT	1984	PFAUDLER	1073/3/83	1983	USED BEFORE	Ferric chloride	1275
6	REACTORS 1.6M3 GLASS LINED	PILOT PLANT	1984	PFAUDLER	1073/3/83	1983	BROKEN	Thionyl plant	--
7	REACTORS 1.6M3 GLASS LINED	PILOT PLANT	1984	PFAUDLER	1073/3/83	1983	IN SERVICE	AL-QAQA ,TARIK FACTORY	1617
8	REACTORS 2M3 GLASS LINED	PILOT PLANT	1984	SOMMER	1073/3/83	1983	PARTIAL LY DES.	Beside workshop	1020
9	REACTORS 2M3 GLASS LINED	PILOT PLANT	1984	SOMMER	1073/3/83	1983	PARTIAL LY DES.	Beside workshop	1021
10	CONDENSER HC 20M2	IT	1985	GERMANY	1651/3/84	1984	USED BEFORE	PCL3 DISTILLATI ON PLANT	1645
11	CONDENSER HC 20M2	IT	1985	GERMANY	1651/3/84	1984	BROKEN	MPC plant	
12	CONDENSER G 25M2	PILOT PLANT	1984	SCHOUT	1073/3/83	1982	BROKEN	D4 plant	
13	CONDENSER G 25M2	PILOT PLANT	1984	SCHOUT	1073/3/83	1982	BROKEN	Thionyl plant	

14	COLUMNS 0.35X5M GLASS	PILOT PLANT	1983	SCHOUT	1073/3/83	1983	USED BEFORE	Stam plant (DMMP)	1665
15	COLUMNS 0.8X3.5M GLASS	PILOT PLANT	1983	SCHOUT	1073/3/83	1983	BRAND NEW	West of first storage building D4 PLANT	1685
16	COLUMNS GLASS LINED 0.4X4M	PILOT PLANT	1985	DEDIETRICH	1073/3/83	1983	BROKEN		
17	COLUMNS GLASS	PILOT PLANT	1984	SCHOUT	1073/3/83	1983	DESTRO YED	PILOT PLANT	1678
18	COLUMNS GLASS	PILOT PLANT	1984	SCHOUT	1073/3/83	1983	DESTRO YED	PILOT PLANT	1541
19	COLUMNS GLASS	PILOT PLANT	1984	SCHOUT	1073/3/83	1983	DESTRO YED	PILOT PLANT	1542
20	COLUMNS GLASS	PILOT PLANT	1984	SCHOUT	1073/3/83	1983	DESTRO YED	PILOT PLANT	1543
21	TANKS 3M3 GLASS LINED	PROTIC	1985	DEDIETRICH	2517/3/87	1984	USED BEFORE	STORAGE AREA FALLUJA 3 IBN BAYTAR	1925
22	VESSEL 3 M3 GLASS LINED	QTL	1985	DEDIEERICH	1250/3/84	1984	INSERVI C		1759
23	TANK 6 M3 PVDF	PILOT PLANT	1983	GERMANY	1073/3/83	1983			
24	TANK 6 M3 PVDF	PILOT PLANT	1983	GERMANY	1073/3/83	1983			
25	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	1073/3/83	1983			
26	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	1073/3/83	1983			
27	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	1073/3/83	1983			
28	TANK 2 M3 PVDF	PILOT PLANT	1983	GERMANY	1073/3/83	1983			

3. Ani Project

NO	DESCRIPTION OF ITEM	EXPORTER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.	NOTE
1	REACTORS 1.6M3 GLASS LINED	PILOT PLANT	1984	PFAUDLER	1073/3/83	1983	USED BEFORE	DMPH plant	1501	
2	REACTORS 1.6M3 GLASS LINED	PILOT PLANT	1984	PFAUDLER	1073/3/83	1983	USED BEFORE	DMPH plant	1503	
3	COLUMNS 0.35X5M GLASS LINED	PILOT PLANT	1984	DEDIETRICH	1073/3/83	1983	USED BEFORE	DMPH plant	1504	
4	COLUMNS 0.35X3.5M GLASS LINED	PILOT PLANT	1984	DEDIETRICH	1073/3/83	1983	IN SERVICE	Phenol plant	1550	
5	COLUMNS 0.35X4M GLASS LINED	PILOT PLANT	1984	DEDIETRICH	1073/3/83	1983	USED BEFORE	Stam plant (DMMP)	1664	
6	VESSEL 0.5 M3 TEFZEL	PILOT PLANT	1985	GERMANY	1073/3/83	1983	BROKEN	DMMP PLANT		
7	VESSEL 0.5 M3 TEFZEL	PILOT PLANT	1985	GERMANY	1073/3/83	1982	BROKEN	DMMP PLANT		
8	VESSEL 0.5 M3 TEFZEL	PILOT PLANT	1985	GERMANY	1073/3/83	1982	BROKEN	DMMP PLANT		
9	VESSEL 0.5 M3 TEFZEL	PILOT PLANT	1985	GERMANY	1073/3/83	1982	BROKEN	DMMP PLANT		

10	TANK 4 M3 PVDF	PILOT PLANT	1983	GERMANY	1073/3/83	1982		
11	TANK 4 M3 PVDF	PILOT PLANT	1983	GERMANY	1073/3/83	1982		
12	TANK 6 M3 PVDF	PILOT PLANT	1983	GERMANY	1073/3/83	1982		
13	TANK 6 M3 PVDF	PILOT PLANT	1983	GERMANY	1073/3/83	1982		

4. MC1 PROJECT

NO.	DESCRIPTION OF ITEM	EXPOR TER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
1	HEAT EXCHANGERS 0.5X0.5X3M ,15M2 GRAPHITE	NEUBU RGER	1987	SIGRIE	315/3/87	1987	IN SERVICE	Brake fluid building,behind far end of storage inside container	1707
2	HEAT EXCHANGERS 0.5X0.5X3M ,15M2 GRAPHITE	NEUBU RGER	1987	SIGRIE	315/3/87	1987	IN SERVICE	Brake fluid building,behind far end of storage inside container	1708
3	HEAT EXCHANGERS 0.5X0.5X3M ,15M2 GRAPHITE	NEUBU RGER	1987	SIGRIE	315/3/87	1987	BRAND NEW	Scrap yard	1725
4	HEAT EXCHANGERS 0.5X0.5X3M ,15M2 GRAPHITE	NEUBU RGER	1987	SIGRIE	315/3/87	1987	BRAND NEW	Scrap yard	1727

5	EXCHANGERS 0.5X0.5X3M ,15M2 GRAPHITE HEAT EXCHANGERS 0.5X0.5X3M ,15M2 GRAPHITE HEAT EXCHANGERS 0.4X3M, 20M2 HC HEAT EXCHANGERS 0.4X3M, 20M2 HC HEAT EXCHANGERS 0.4X3M, 20M2 HC HEAT EXCHANGERS 0.3X1M HC HEAT EXCHANGERS 0.3X1.2M HC HEAT EXCHANGERS 0.3X1.6M	RGER NEUBU RGER WET WET WET WET WET WET WET WET	1987 1987 1987 1987 1987 1987 1987 1987 1987 1987	SIGRIE CABOT CABOT CABOT QUAST QUAST QUAST	315/3/87 7/3/87 7/3/87 7/3/87 7/3/87 7/3/87 7/3/87	1987 1986 1986 1986 1987 1987 1987	BRAND NEW IN SERVICE IN SERVICE USED BEFORE INSERVICE INSERVICE USED BEFORE	Scrap yard Storage area 50 m south west of phenol plant phenol plant DMPH plant. Phenol plant Phenol plant Stam plant (DMMP)	1728 1567 1568 1510 1004 1007
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12	HC HEAT EXCHANGERS 0.3X1.6M HC	WET	1987	QUAST	7/3/87	1987	BROKEN	Stam plant	
13	CONDENSER T 5M2 HC	WET	1987	CABOT	7/3/87	1986	INSERVICE	Phenol plant	1008
14	CONDENSER T 5M2 HC	WET	1987	CABOT	7/3/87	1986	INSERVICE	Phenol plant	1903
15	CONDENSER T 5M2 HC	WET	1987	CABOT	7/3/87	1986	INSERVICE	Phenol plant	1905
16	CONDENSER T 20M2 HC	WET	1987	GERMANY	7/3/87	1986	USED BEFORE	Stam plant(DMMP)	1508
17	CONDENSER T 20M2 HC	WET	1987	GERMANY	7/3/87	1986	USED BEFORE	Stam plant (DMMP)	1656
18	CONDENSER T 20M2 HC	WET	1987	GERMANY	7/3/87	1986	USED BEFORE	Stam plant (DMMP)	1657
19	CONDENSER T 20M2 HC	WET	1987	CABOT	7/3/87	1986	IN SERVICE	Phenol plant	1003
20	CONDENSER 20M2 HC	WET	1987	GERMANY	7/3/87	1986	USED BEFORE	PCI3 Distillation	1646

NO.	DESCRIPTION OF ITEM	EXPOR TER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
21	CONDENSER HC COLUMNS	WET	1987	GERMANY	7/3/87	1986	BROKEN	Thionyl plant	
22	0.35X3.5M HALLAR	NEUBU RGER	1988	GERMANY	315/3/87	1987	USED BEFORE	Storage area Falluja 2	1557

0099

23	COLUMNS 0.35X3.5M HALLAR	NEUBU RGER	1988	GERMANY	315/3/87	1987	BRAND NEW	Storage area 10m south of phenol plant Falluja/2	1572
24	COLUMNS 0.35X3.5M HALLAR	NEUBU RGER	1988	GERMANY	315/3/87	1987	BRAND NEW	Ditto	1571
25	COLUMNS 0.35X3.5M HALLAR	NEUBU RGER	1988	GERMANY	315/3/87	1987	BROKEN	Pilot plant	
26	COLUMNS 0.35X3.5M HALLAR	NEUBU RGER	1988	GERMANY	315/3/87	1987	BROKEN	D4 plant	
27	COLUMNS 0.35X3.5M HALLAR	NEUBU RGER	1988	GERMANY	315/3/87	1987	BRAND NEW	Stor. area 10m south phenol plant	1699
28	COLUMNS 0.35X3.5M HALLAR	NEUBU RGER	1988	GERMANY	315/3/87	1987	BRAND NEW	Storage area south phenol plant	----
29	COLUMNS 0.35X3.5M HALLAR	NEUBU RGER	1988	GERMANY	315/3/87	1987	BRAND NEW	Storage area south phenol plant	1560
30	COLUMNS 0.35X3.5M HALLAR	NEUBU RGER	1988	GERMANY	315/3/87	1987	BRAND NEW	west of first storage building	1684
31	TANKS 0.5M3 GLASS LINED	NEUBU RGER	1987	DEDIETRICH	315/3/87	1987	BROKEN	D4 PLANT	
32	TANKS 0.5M3 GLASS LINED	NEUBU RGER	1987	DEDIETRICH	315/3/87	1987	BROKEN	D4 PLANT	
33	TANKS 0.5M3 GLASS LINED	NEUBU RGER	1987	DEDIETRICH	315/3/87	1987	BROKEN	D4 PLANT	
34	TANKS 0.5M3 GLASS LINED	NEUBU RGER	1987	DEDIETRICH	315/3/87	1987	BROKEN	D4 PLANT	
35	TANKS 0.5M3 GLASS LINED	NEUBU RGER	1987	DEDIETRICH	315/3/87	1987	BROKEN	MPC PLANT	
36	TANKS 4M3 GLASS LINED	NEUBU RGER	1987	DEDIETRICH	315/3/87	1987	USED BEFORE	DMPH	1516
37	TANKS 4M3 GLASS	NEUBU RGER	1987	DEDIETRICH	315/3/87	1987	USED BEFORE	DMPH	1515

8	COLUMNS 1X1M GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1988	BRAND NEW	Storage area, South of Phenol plant	1555
9	COLUMNS 0.8X3M GLASS LINED,	PROTIC	1988	DEDIETRICH	2517/3/87	1988	BRAND NEW	Storage area, South of Phenol plant	1556
10	COLUMNS 0.6X3M GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	1987	BRAND NEW	West of first storage building	1686
11	COLUMNS 0.6X3M GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	1987	BRAND NEW	West of first storage building	1687
12	COLUMNS 0.8X3M GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	1987	BRAND NEW	W- stor.area, 10m south of ph.plant	1690
13	COLUMNS 0.8X3.5M	PROTIC	1987	DEDIETRICH	2517/3/87	1987	BRAND NEW	W- stor.area, 10m south of ph.plant	1691
14	COLUMNS 0.8X3.5M	PROTIC	1987	DEDIETRICH	2517/3/87	1987	BRAND NEW	W- stor.area, 10m south of ph.plant	1692
15	GLASS LINED COLUMNS 0.8X2.6M	PROTIC	1987	DEDIETRICH	2517/3/87	1987	BRAND NEW	W- stor.area, 10m south of ph.plant	1693
16	GLASS LINED COLUMNS 0.8X2.6M	PROTIC	1987	DEDIETRICH	2517/3/87	1987	BRAND NEW	W- stor.area, 10m south of ph.plant	1694
17	GLASS LINED COLUMNS 0.8X3.5M	PROTIC	1987	DEDIETRICH	2517/3/87	1987	BRAND NEW	W- stor.area, 10m south of ph.plant	1695
18	GLASS LINED COLUMNS 0.8X2.5M	PROTIC	1987	DEDIETRICH	2517/3/87	1987	BRAND NEW	W- stor.area, 10m south of ph.plant	1696
19	GLASS LINED COLUMNS 0.8X2.5M	PROTIC	1987	DEDIETRICH	2517/3/87	1987	BRAND NEW	W- stor.area, 10m south of ph.plant	1697

20	COLUMNS 0.8X3M GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	1987	IN SERVICE	Brake fluid formulation building	1701
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NO.	DESCRIPTION OF ITEM	EXPOR TER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
21	COLUMNS 0.8X3.5M GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	1987	IN SERVICE	Brake fluid formulation building	1702
22	COLUMNS 0.6X2.5M GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	1985	IN SERVICE	Brake fluid formulation building behind the end of storage area	1704
23	COLUMNS 0.6X2.5M GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	1985	IN SERVICE	Brake fluid formulation building behind the end of storage area	1706
24	COLUMNS 0.8X9.5M GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	1987	BRAND NEW	South of multi purpose building	1711
25	COLUMNS 0.5X1.8M GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	1987	BRAND NEW	South of multi purpose building	1713
26	COLUMNS 0.6X2.5M GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	1987	BRAND NEW	South of multi purpose building	1714
27	COLUMNS	PROTIC	1988	DEDIETRICH	2517/3/87	1987	BRAND NEW	South of multi purpose	1715

28	0.5X1.8M GLASS LINED COLUMNS 0.4X3M	PROTIC	1988	DEDIETRICH	2517/3/87	1985	BRAND NEW	Scrap Yard	1723
29	GLASS LINED, COLUMNS 0.4X3M	PROTIC	1988	DEDIETRICH	2517/3/87	1985	BRAND NEW	Scrap Yard	1724
30	GLASS LINED COLUMNS 0.6X2.5M	PROTIC	1988	DEDIETRICH	2517/3/87	1985	BRAND NEW	Scrap Yard	1730
31	GLASS LINED COLUMNS 0.3X3M	PROTIC	1988	DEDIETRICH	2517/3/87	1985	BRAND NEW	Scrap Yard	1735
32	GLASS LINED COLUMNS 0.3X3M	PROTIC	1988	DEDIETRICH	2517/3/87	1985	BRAND NEW	Scrap Yard	1736
33	GLASS LINED COLUMNS 0.4X4M	PROTIC	1988	DEDIETRICH	2517/3/87	1987	BRAND NEW	Scrap Yard	1926
34	GLASS LINED COLUMNS GLASS LINED	PROTIC	1988	EDIETRICH	2517/3/87	1985	INSERVIC	IBN BYTAR	1761
35	TANKS 0.57M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1985	BRAND NEW	W- sto. area 1, 10m south of ph. plant	1689

NO.	DESCRIPTION OF ITEM	EXPOR TER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
36	TANKS 0.5 M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1987	USED BEFORE	phenol plant	1551
37	TANKS, REC V.1.4M3	PROTIC	1988	DEDIETRICH	2517/3/87	1987	USED BEFORE	PCI3 distillation plant	1638

38	GLASS LINED TANKS, REC V.1.4M3	PROTIC	1988	DEDIETRICH	2517/3/87	1987	USED BEFORE	PCI3 distillation plant	1639
39	GLASS LINED TANKS, REC V.1.4M3	PROTIC	1988	DEDIETRICH	2517/3/87	1987	USED BEFORE	PCI3 distillation plant	1640
40	GLASS LINED TANKS, REC V.1.4M3	PROTIC	1988	DEDIETRICH	2517/3/87	1987	USED BEFORE	PCI3 distillation plant	1641
41	GLASS LINED TANKS 1.2M3	PROTIC	1988	DEDIETRICH	2517/3/87	1987	USED BEFORE	phenol plant	1548
42	GLASS LINED TANKS 1.4M3	PROTIC	1988	DEDIETRICH	2517/3/87	1987	USED BEFORE	phenol plant	1902
43	GLASS LINED TANKS 1.4M3	PROTIC	1988	DEDIETRICH	2517/3/87	1987	USED BEFORE	phenol plant	1552
44	GLASS LINED TANKS 2 M3	PROTIC	1988	DEDIETRICH	2517/3/87	1987	BRAND NEW	W- sto.area 1,10m south of ph.plant	1698
45	GLASS LINED TANKS 2 M3	PROTIC	1988	DEDIETRICH	2517/3/87	1987	BRAND NEW	Str.area 10m south of phenol plant	1937
46	GLASS LINED TANKS 3M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1987	USED BEFORE	PCI3 distillation plant	
47	TANKS 3M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1987	BROKEN	D4 plant	
48	TANKS 3M3 GLASS LINED	QTL	1988	DEDIETRICH	1250/3/84	1987	USED BEFORE	DMPH plant	1513
49	TANKS 3M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1987	USED BEFORE	Storage area FALLUJA 2	1680
50	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1986	IN SERVICE	Phenol PLANT 1009/1553*	

NO.	DESCRIPTION OF ITEM	EXPOR TER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
51	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1988	IN SERVICE	Stam plant FALLUJA 3	1767
52	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1988	USED BEFORE	DMPH plant	1512
53	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1988	BROKEN	D4 PLANT	
54	TANKS 4 M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1988	BROKEN	PC13 distillation PLANT	1649
55	TANKS 4 M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1988	BROKEN	MPC PLANT	
56	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1988	USED BEFORE	Stam PLANT	1668
57	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1988	BROKEN	Nerve Gas	
58	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1988	USED BEFORE	SCRAP YARD FALLUJA 3	1936
59	TANKS 4M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1987	USED BEFORE	STORAGE AREA FALLUJA 2	1938
60	TANKS 6.3M3 GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	1987	USED BEFOR	PC13 distillation	1648

NO.	DESCRIPTION OF ITEM	EXPOR TER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
61	TANKS 6.3M3 GLASS LINED	PROTIC	1987	DEDIETRICH	2517/3/87	1987	BROKEN	D4 PLANT	
62	TANKS 10M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1987	BROKEN	D4 PLANT	

		PROTIC	1988	DEDIETRICH	2517/3/87	1987	BROKEN	MPC PLANT	1514
63	TANKS 10M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1987	USED BEFORE	DMPH PLANT	1514
64	TANKS 10M3 GLASS LINED,	PROTIC	1988	DEDIETRICH	2517/3/87	1987	BRAND NEW	Stor.area at eastern corner of site 1682	1527
65	TANKS 10M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1987	DEST. BY UN	Mustard PLANT	1581
66	TANKS 20M3 GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1987	IN SERVICE	Production building	1762
67	TANKS 20M3 GLASS LINED	PROTIC	1988	DEDIEERICH	2517/3/87	1987	INSERVIC	IBN BAYTAR	1763
68	VESSEL 2 M3 GLASS LIND	PROTIC	1988	DEDIEERICH	2517/3/87	1987	INSERVIC	IBN BAYTAR	1763
69	VESSEL 2 M3 GLASS LIND	PROTIC	1988	DEDIEERICH	2517/3/87	1987	INSERVIC	IBN BAYTAR	1763

6. Iesa Project

NO.	DESCRIPTION OF ITEM	EXPOR TER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.	NOTE
1	REACTORS 3M3 TEFEZEL	PILOT PLANT	1984	GERMANY	31/3/84	1984	Destroyed	Hydrolysis Plant	1533	
2	REACTORS 3M3 TEFEZEL	PILOT PLANT	1984	GERMANY	31/3/84	1984	DAMAGED	In castor oil plant Falluja 3	--	

7. General equipment

NO.	DESCRIPTION OF ITEM	EXPOSURE	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
1	REACTORS 2.5M3 GLASS LINED	DEDIETRICH RICH WET	1985	DEDIETRICH	567/3/84	1985	IN SERVICE	Stor.area south of phenol plant	1700
2	REACTORS 2.5M3 GLASS LINED	PFAUDLER WET	1985	PFAUDLER	489/3/84	1985	IN SERVICE	production building 3	1573
3	REACTORS 2.5M3 GLASS LINED	PFAUDLER WET	1985	PFAUDLER	489/3/84	1985	IN SERVICE	production building 3	1574
4	REACTORS 2.5M3 GLASS LINED	PFAUDLER WET	1985	PFAUDLER	489/3/84	1985	IN SERVICE	Castor oil plant	1935
5	REACTORS 2.5M3 GLASS LINED	PFAUDLER WET	1985	PFAUDLER	489/3/84	1985	USED BEFORE	PCI3 distillation	1642
6	REACTORS 2.5M3 GLASS LINED	PFAUDLER WET	1985	PFAUDLER	489/3/84	1985	USED BEFORE	PCI3 distillation	1643
7	REACTORS 2.5M3 GLASS LINED	PFAUDLER WET	1985	PFAUDLER	489/3/84	1985	USED BEFORE	Stam plant (DMMP)	1666
8	REACTORS 2.5M3 GLASS LINED	DEDIETRICH RICH WET	1985	DEDIETRICH	567/3/84	1985	USED BEFORE	Stam plant (DMMP)	1667
9	REACTORS 2.5M3 GLASS LINED	PFAUDLER WET	1985	PFAUDLER	489/3/84	1985	IN SERVICE	production building 4	1582
10	REACTORS 2.5M3 GLASS LINED	PFAUDLER WET	1985	PFAUDLER	489/3/84	1985	IN SERVICE	production building 4	1583
11	REACTORS 2.5M3 GLASS LINED	I.T	1985	DEDIETRICH	1651/3/84	1985	IN SERVICE	Ferric chloride	1904
12	REACTORS 2.5M3 GLASS LINED	PFAUDLER WET	1985	PFAUDLER	489/3/84	1984	PARTIALLY DES.	Stor.area at east. corner of site	1679

13	REACTORS 2.5M3 GLASS LINED	I.T	1985	DEDIETRICH	1651/3/84	1985	BROKEN	D4 plant	--
14	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	1985	BROKEN	D4 plant	--
15	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	1985	BROKEN	D4 plant	--
16	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	1985	BROKEN	MPC plant	--
17	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	1985	BROKEN	MPC plant	--
18	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	1985	BROKEN	Stam plant	--
19	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	1985	Dest. by UN	Mustard gas	--
20	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	1985	Dest. by UN	Mustard gas	1524
21	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	1985	BROKEN	Mustard gas	1525
22	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	489/3/84	1985	BROKEN	Thionyl plant	--
23	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	490/3/84	1985	IN SERVICE	AL-QAQA	1613
24	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	490/3/84	1985	IN SERVICE	AL-QAQA	1614
25	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	490/3/84	1985	IN SERVICE	S.E.FOR VEGETABLE OIL	--
26	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	490/3/84	1985	IN SERVICE	S.E.FOR VEGETABLE OIL	--
27	REACTORS 2.5M3 GLASS LINED	WET	1985	PFAUDLER	490/3/84	1985	PARTIALLY DES.	AL-QAQA	--

28	REACTORS 1.6M3 GLASS LINED	WET	1985	PFAUDLER	770/3/85	1985	BROKEN	stam plant	--
29	REACTORS 1.6M3 GLASS LINED,	WET	1985	PFAUDLER	770/3/85	1985	BROKEN	stam plant	--
30	REACTORS 1.6M3 GLASS LINED	WET	1985	PFAUDLER	770/3/85	1985	BROKEN	stam plant	--

NO.	DESCRIPTION OF ITEM	EXPOR TER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
31	REACTORS 1.4M3 MONEL	W.E.T	1985-86	N.A	185/3/85	1985	BROKEN	PILOT plant 3	--
32	REACTORS 1.4M3 MONEL	W.E.T	1985-86	N.A	185/3/85	1985	IN SERVICE	IBNBAYTAR	1757
33	REACTORS 1.4M3 MONEL	W.E.T	1985-86	N.A	185/3/85	1985	IN SERVICE	S.E.FOR VEGETABLE OIL	--
34	REACTORS PTFE(TEFLON)1.5M 3	--	--	--	--	--	IN SERVICE	IBN BAYTAR	1764
35	REACTORS PTFE(TEFLON)1.5M 3	--	--	--	--	--	IN SERVICE	IBN BAYTAR	1758
36	HEAT EXCHANGERS 0.5X3.5M, 25M2 GRAPHITE	W.E.T	1984-86	LA CARBONNE,	1187/3/84	1984	IN SERVICE	Brake fluid formulation building	1703
37	HEAT	W.E.T	1984-86	LORRANA LA	1187/3/84	1984	BRAND NEW	Storage area 10m east of	1901

0110

38	EXCHANGERS 0.5X4M, 25M2 GRAPHITE HEAT EXCHANGERS 0.5X5.5M, 50M2 GRAPHITE HEAT EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS	W.E.T	1984-86	CARBONNE, LORRANA LA CARBONNE, LORRANA LA CARBONNE, LORRANA LA CARBONNE, LORRANA LA CARBONNE, LORRANA ARATEBAN	1187/3/84	1984	IN SERVICE	phenol plant Brake fluid formul.behind the end of stor.area inside container Scrap yard	1705
39	EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS	W.E.T	1984-86	CARBONNE, LORRANA LA CARBONNE, LORRANA LA CARBONNE, LORRANA LA CARBONNE, LORRANA ARATEBAN	1187/3/84	1984	BRAND NEW	Scrap yard	1729
40	EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS	W.E.T	1984-86	CARBONNE, LORRANA LA CARBONNE, LORRANA LA CARBONNE, LORRANA ARATEBAN	1187/3/84	1984	BRAND NEW	Scrap yard	1734
41	EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS	W.E.T	1984-86	CARBONNE, LORRANA LA CARBONNE, LORRANA ARATEBAN	1187/3/84	1984	USED BEFORE	DMPH Plant	1502
42	EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS	W.E.T	1984-86	CARBONNE, LORRANA LA CARBONNE, LORRANA ARATEBAN	1187/3/84	1984	USED BEFORE	Stam plant(DMMP)	1669
43	EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS	W.E.T	1984-86	CARBONNE, LORRANA LA CARBONNE, LORRANA ARATEBAN	1187/3/84	1984	BRAND NEW	Scrap yard	1737
44	EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS 25M2 GRAPHITE HEAT EXCHANGERS	W.E.T	1984-86	CARBONNE, LORRANA LA CARBONNE, LORRANA ARATEBAN	1187/3/84	1984	BRAND NEW	Scrap yard	1738

45	GRAPHITE HEAT EXCHANGERS 691,10M2 GRAPHITE	W.E.T	1984-86	VICARB	1187/3/84	1984	PARTIALLY DEST	Scrap yard	1739
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NO.	DESCRIPTION OF ITEM	EXPOR TER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
46	HEAT EXCHANGERS 691,10M2 GRAPHITE	W.E.T	1984-86	VICARB	1187/3/84	1984	PARTIALLY DEST	Scrap yard	1740
47	HEAT EXCHANGERS 691,10M2 GRAPHITE	W.E.T	1984-86	VICARB	1187/3/84	1984	PARTIALLY DEST	Scrap yard	1741
48	HEAT EXCHANGERS 691,10M2 GRAPHITE	W.E.T	1984-86	VICARB	1187/3/84	1984	PARTIALLY DEST	Scrap yard	1742
49	HEAT EXCHANGERS 50M2 GRAPHITE	W.E.T	1984-86	LA CARBONNE,	1187/3/84	1984	USED BEFORE	Incinerator plant	1017
50	HEAT EXCHANGERS 50M2	W.E.T	1984-86	LORRANA LA CARBONNE,	1187/3/84	1984	USED BEFORE	Incinerator plant	1018

51	GRAPHITE HEAT EXCHANGERS 25M2	W.E.T	1984-86	LORRANA LA CARBONNE,	1187/3/84	1984	USED BEFORE	Incinerator plant	1019
52	GRAPHITE HEAT EXCHANGERS 0.5X3.5M	W.E.T	1984-86	LORRANA DUKER	1187/3/84	1984	Dest. by UN	Pilot plant 1	1544
53	GRAPHITE 25 M2 HEAT EXCHANGERS 0.5X3.5M	W.E.T	1984-86	RICHTER	1187/3/84	1984	USED BEFORE	Scrap yard Falluja 3	1745
54	GRAPHITE 25 M2 HEAT EXCHANGERS 0.5X6 M	W.E.T	1984-86	PFAUDLER	1187/3/84	1984	Dest. by UN	Mustard gas	1526
55	GRAPHITE HEAT EXCHANGERS 0.5X6 M	W.E.T	1984-86	PFAUDLER	1187/3/84	1984	Dest. by UN	Nerve gas	1537
56	GRAPHITE HEAT EXCHANGERS 0.6X1.5M	W.E.T	1984-86	PFAUDLER	1187/3/84	1984	BROKEN	Thionyl plant	
57	GRAPHITE HEAT EXCHANGERS 4M2	I.T	1984	PFAUDLER	1651/3/84	1984	BRAND NEW	Scrap Yard	1722
58	GLASS LINED HEAT EXCHANGERS 8M2	I.T	1984	PFAUDLER	1651/3/84	1984	BRAND NEW	Scrap Yard	1733

59	GLASS LINED HEAT EXCHANGERS 8M2	I.T	1984	PFAUDLER	1651/3/84	1984	BRAND NEW	Scrap Yard	1731
60	GLASS LINED, HEAT EXCHANGERS 12M2 GLASS LINED	I.T	1984	PFAUDLER	1651/3/84	1984	BRAND NEW	Scrap Yard	1568

NO.	DESCRIPTION OF ITEM	EXPOR TER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
61	HEAT EXCHANGERS 12M2	I.T	1984	PFAUDLER	1651/3/84	1984	BROKEN	D4 Plant	
62	GLASS LINED HEAT EXCHANGERS 12M2	I.T	1984	PFAUDLER	1651/3/84	1984	USED BEFORE	Storage area /Falluja2	1768
63	GLASS LINED HEAT EXCHANGERS	WET	1984-86	PFAUDLER	1187/3/84	1984	Dest. by UN	DF Plant (6)	1528
64	GLASS LINED HEAT EXCHANGERS GLASS LINED	WET	1984-86	PFAUDLER	1187/3/84	1984	BROKEN	Thionyl Plant	

65	CONDENSER 7.5M2 HC	LENHA RDT	1984	GERMANY	1315/3/84	1983	USED BEFORE	DMPH plant	1509
66	CONDENSER T 20M2 HC	NEUBU GER	1985	GERMANY	250/3/85	1985	IN SERVICE	Production plant	1010
67	CONDENSER T 20M2 HC	NEUBU GER	1985	GERMANY	250/3/85	1985	USED BEFORE	DMPH plant	1507
68	CONDENSER 20 M2 HC	NEUBU RGER	1985	GERMANY	250/3/85	1985	IN SERVICE	product building 4 /Falluja 2	1011
69	CONDENSER HC	NEUBU RGER	1986	GERMANY	250/3/85	1985	BROKEN	Thionyl plant	
70	COLUMNS 0.8X4.5M	I.T	1985	PFAUDLER	1651/3/84	1984	USED BEFORE	PC13 distillation	1644
71	GLASS LINED COLUMNS 0.3X4.5M	I.T	1985	PFAUDLER	1651/3/84	1984	USED BEFORE	PC13 distillation	1647
72	GLASS LINED COLUMNS GLASS LINED 0.8X3M	IT	1985	PFAUDLER	1651/3/84	1984	BROKEN	D4 PLANT	
73	COLUMNS GLASS LINED 0.4X4M						BROKEN	MPC PLANT	
74	COLUMNS GLASS LINED 0.4X4M						USED BEFORE	STAM PLANT	1670
75	COLUMNS GLASS LINED						BROKEN	Thionyl PLANT	
76	COLUMNS 0.45X3 M HALLAR	NEUBU RGER	1986	GOOD BROT	666/3/86	1986	BRAND NEW	Storage area south phenol plant	1558
77	TANKS 2M3 GLASS LINED	PROTIC	1988	DEDIETRICH	1217/3/87	1987	BROKEN	MPC PLANT	
78	TANKS 2M3 GLASS LINED	PROTIC	1988	DEDIETRICH	1217/3/87	1987	BROKEN	MPC PLANT	

NO.	DESCRIPTION OF ITEM	EXPOR TER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
79	TANKS 2M3 GLASS LINED	PROTIC	1988	DEDIETRICH	1217/3/87	1987	USED BEFORE	Storage area Falluja 2	1765
80	TANKS 0.57M3 GLASS LINED,	-	1983-85	-	N.A		USED BEFORE	Stam PLANT(DMMP)	1658
81	TANKS 0.8 M3 GLASS LINED	NEWBU RGER	1986	DEDIETRICH	666/3/86	1985	USED BEFORE	Stam PLANT(DMMP)	1659
82	TANKS 0.8 M3 GLASS LINED	NEWBU RGER	1986	DEDIETRICH	666/3/86	1985	USED BEFORE	DMPH	1511
83	TANKS GLASS LINED	PROTIC	1988	DEDIETRICH	2517/3/87	1987	BROKEN	Nerve gas	
84	TANKS GLASS LINED	-	1983-85	-	N.A		BROKEN	Thionyl PLANT	

NO.	DESCRIPTION OF ITEM	EXPOR TER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
85	TANKS GLASS LINED	-	1983-85	-	N.A		BROKEN	Thionyl PLANT	
86	TANKS GLASS LINED	-	1983-85	-	N.A		BROKEN	PILOT PLANT 3	
87	TANKS 0.5-2M3 GLASS LINED	NEW BURGE R	1986	DEDIETRICH	666/3/86	1985	USED BEFORE	Stam PLANT	1660
88	TANKS 0.5-2M3 GLASS LINED	NEU BURGE R	1986	DEDIETRICH	666/3/86	1985	USED BEFORE	Stam PLANT	1663
89	TANKS 0.5-2M3 GLASS LINED	NEU BURGE R	1986	DEDIETRICH	666/3/86	1985	USED BEFORE	Storage area Falluja 3	1710

90	TANKS 0.5-2M3 GLASS LINED	R NEU BURGE	1985	DEDIETRICH	250/3/85	1985	BROKEN	DMMP PLANT	
91	TANKS 0.5-2M3 GLASS LINED	R NEU BURGE	1985	DEDIETRICH	250/3/85	1985	BROKEN	DMMP PLANT	
92	TANKS 0.5-2M3 GLASS LINED	R NEU BURGE	1985	DEDIETRICH	250/3/85	1985	BROKEN	DMMP PLANT	
93	TANKS 0.5-2M3 GLASS LINED	R NEU BURGE	1985	DEDIETRICH	250/3/85	1985	BROKEN	Thionyl PLANT	
94	TANKS 0.5-2M3 GLASS LINED	R NEW BURGE	1985	DEDIETRICH	250/3/85	1985	BROKEN	Storage area Falluja 2	1604
95	TANKS 4M3 GLASS LINED	R NEUBU RGER	1987	DEDIETRICH	315/3/87	1987	BROKEN	Pilot PLANT 3	
96	TANKS 6M3 GLASS LINED	I.T	1985	PFAUDLER	1651/3/84	1984	BROKEN	MPC PLANT	
97	TANKS 6M3 GLASS LINED	I.T	1985	PFAUDLER	1651/3/84	1984	BROKEN	Thionyl PLANT	
98	TANKS 20M3 GLASS LINED	NEU BURGE	1985	DEDIETRICH	250/3/85	1985	BROKEN	PC13 production PLANT	
99	VESSEL 2 M3 HC	R LENHA RDT	1984	QUAST	1315/3/84	1984	IN SERVICE	Pesticide PLANT (Falluja	
100	VESSEL 8 M3 HC	NEUBU RGER	1985	QUAST	250/3/85	1985	IN SERVICE	Production PLANT (Falluja	1578
101	VESSEL 8 M3 HC	LENHA	1984	QUAST	1315/3/84	1984	IN SERVICE	Production building / 3	1579

102	VESSEL 2.8 M3 HC	RDT LENHA	1984	QUAST	1315/3/84	1984	BROKEN	Stam PLANT DMMP	
103	VESSEL 2.8 M3 HC	RDT LENHA	1984	QUAST	1315/3/84	1984	BROKEN	Stam PLANT DMMP	
104	VESSEL 5 M3 HALLAR	NEWBU RGER	1986	GERMANY	666/3/86	1985	BROKEN	Thionyl PLANT	
105	VESSEL 5 M3 HALLAR	WET	1986	N.A	N.A	N.A	BROKEN	Thionyl PLANT	
106	VESSEL 5 M3 HALLAR	NEWBU RGER	1986	GERMANY	666/3/86	1986	BROKEN	DMPH	
107	VESSEL 2.6 M3 HALLAR	N.A	N.A	LITERCL FRANCE N.A	1987	NEW	Storage Area Falluja 2	1681	1718
108	VESSEL 5 M3 HALLAR	NEWBU RGER	1986	GERMANY	666/3/86	1986	NEW	Storage Area Falluja 3	
109	VESSEL 5 M3 HALLAR	NEWBU RGER	1986	GERMANY	666/3/96	1986	NEW	Storage Area Falluja 3	1719
110	VESSEL 5 M3 HALLAR	NEWBU RGER	1986	GERMANY	666/3/86	1986	NEW	Storage Area Falluja 3	1720
111	VESSEL 5 M3 HALLAR	NEWBU RGER	1986	GERMANY	666/3/86	1986	NEW	Storage Area Falluja 3	1721
112	VESSEL 4.6 M3 HALLAR	N.A	N.A	N.A	N.A	N.A	BROKEN	Sarine PLANT	
113	VESSEL 1.2 M3 GLASS LIND	NEWBU RGER	1986	DEDIEERICH	666/3/86	1985	IN SERVICE	IBN BAYTAR	1760
114	TANK 5 M3 PVDF	LENHA RDT	1984	GERMANY	1315/3/84	1984			
115	TANK 2 M3 PVDF	LENHA RDT	1984	GERMANY	1315/3/84	1984			
116	TANK 2 M3 PVDF	LENHA	1984	GERMANY	1315/3/84	1984			

0118

9. GHASI project

NO.	DESCRIPTION OF ITEM	EXPORTER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
1	Heating system 16KW, Normal steel	pilot plant	1984	Germany	83/3/1073	1982	broken	Thionyl plant	
2	Head condenser 1.5m2, Material s.s	pilot plant	1984	Germany	83/3/1073	1982	broken	Thionyl plant	
3	Collection receiver 0.5 m3 material s.s	pilot plant	1984	Germany	83/3/1073	1982	broken	Thionyl plant	
4	Reactor 1m3, material s.s	pilot plant	1984	Germany	83/3/1073	1982	broken	Thionyl plant	

10. SALADIN PROJECT

NO.	DESCRIPTION OF ITEM	EXPORTER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.
1	Collection vessel 2m3,s.s	pilot plant	1984	Germany	pp 566	1983	broken	filling station area	
2	Filling station s.s	pilot plant	1984	Germany	pp 566	1983	broken	filling station area	

0120

11. MEDA

NO.	DESCRIPTION OF ITEM	EXPORTER	YEAR OF EXP.	MANUFACT.	LC NO.	YEAR OF MANF.	STATUS	PRESENT LOCATION	TAG NO.	NOTE
1	Centrifuge s.s, 0.25 m3	pilot plant	1982	W.G	82/3/899	1982	BROKEN			part of AHME D proj.

12. ALI project

1. C.S MILLER (pin type) was used for CS milling. 872/3/82
2. Dryer.

13. MC3 project

- Chillers,Pipes, valves, fittings(GL & plastic)(spare part), from Protic L/C No 7/3/87.

14. DIAH Project

Note:-
 All DIAH project equipment were from stores (imported as general projects).

15. TMP project (7201)

- decanter
- dissolver
- Nitrogen unit
- Tanks

16. distillation unit

a complete package (2 unit) for distillation of ethanol in order to obtain absolute alcohol this was installed in AL-Muthana in the end of 1984.

New

***** LIST OF TAGED EQUIPMENT WHICH ARE NOT IDENTIFIED IN ABOVE TABLE *****

NO.	DESCRIPTION OF ITEM	EXPORTER	YEAR OF EXP.	MANUFACT.	LC NO.	STATUS	LOCATION	TAG NO.
1	HC Vessel for Vacuum	N.A	N.A	N.A	N.A	DES. BY UN	AL_MUTHANA	1535

	M.R.U											
14	Column Section	N.A	N.A	N.A	N.A	N.A	N.A	USED BEFORE	FALLUJA 2	1559		
15	Column Section	PROTIC	1988	DEDITRICH	2517/3/87	2517/3/87	2517/3/87	USED BEFORE	FALLUJA 2	1561		
16	Vacuum Pump	SULZER	1987	SULZER	664/3/86	664/3/86	664/3/86	USED BEFORE	FALLUJA 2	1940		
17	Vacuum Pump	SULZER	1987	SULZER	664/3/86	664/3/86	664/3/86	USED BEFORE	FALLUJA 2	1565		
18	Centrifuge Filter	PILOT PLANT	1983	N.A	899/3/82	899/3/82	899/3/82	USED BEFORE	FALLUJA 2	1683		
19	S.S Column	N.A	N.A	N.A	N.A	N.A	N.A	N.A	FALLUJA 2	1977		
20	S.S Column	N.A	N.A	N.A	N.A	N.A	N.A	N.A	FALLUJA 2	1978		
21	S.S Column	N.A	N.A	N.A	N.A	N.A	N.A	N.A	FALLUJA 2	1979		
22	HC Vessel 870 L	N.A	N.A	N.A	N.A	N.A	N.A	USED BEFORE	AL_MUTHANA	1661		
23	HC Vessel Pump	N.A	N.A	N.A	N.A	N.A	N.A	USED BEFORE	FALLUJA 3	1716		
24	Vacuum Pump	N.A	N.A	N.A	N.A	N.A	N.A	USED BEFORE	FALLUJA 3	1743		
25	Vacuum Pump	N.A	N.A	N.A	N.A	N.A	N.A	USED BEFORE	FALLUJA 3	1744		

NO.	DESCRIPTION OF ITEM	EXPORTER	YEAR OF MANUFACT. EXP.	LC NO.	STATUS	LOCATION	TAG NO.
26	Spool piece		Deditrich 1987	---		South of multipurpose	1100
27	piece of colum.(GL)	---	Deditrich 1987	---		Scrap yard	1934
28	Mobile refrigerated unit compact	---	---	---		Equip. storage area	1013
29	Mobile refrigerated unit compact	---	---	---		Equip. storage area	1014
30	Column with vessel HC (100L)	---	Sulzer 1986	---		DMPH	1530
31	Column with vessel HC (100L)	---	Sulzer 1986	---		DMPH	1531
32	Vessel HC (300L)	---	1983	---		DMPH	1532
33	Tank	---	N.A	---	Broken	DF plant	1651
34	Tank	---	N.A	---	Broken	DF plant	1652
35	Tank	---	N.A	---	Broken	DF plant	1653
36	Tank	---	N.A	---	Broken	DF plant	1654
37	Mobile refrigerated unit	---	---	---		Equip. storage area	1748
38	Mobile refrigerated unit	---	---	---		Equip. storage area	1749
39	Inhalation chamber	---	N.A	---	Broken	---	1756

40	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	DES. BY UN	N.A	1662
41	Reactor	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	DES. BY UN	Pilot plant	1672
42	Tank Scrubber	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	DES. BY UN	Pilot plant	1673
43	Reactor stirred	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	DES. BY UN	Pilot plant	1674
44	Dist. Column	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	DES. BY UN	Pilot plant	1675
45	Heat Exchanger	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	DES. BY UN	Pilot plant	1676
46	Scrubber Column Glass	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	DES. BY UN	Pilot plant	1677
47	Column	N.A	N.A	N.A	N.A	N.A	N.A	N.A	N.A	USED BEFORE	PC13 Dist.	1603
48	Tank Haller (Reactor)3M3	N.A	1985	Godbrot	N.A	N.A	N.A	N.A	N.A	In Service	Ferric Chloride unit	1566
49	Column										Scrap yard Falluja 2	1939
50	Column(D.0.5, L.3)M G.L										Beside Storage No.1	1980

NO.	DESCRIPTION OF ITEM	EXPORTER	YEAR OF MANUFACT. EXP.	LC NO.	STATUS	LOCATION	TAG NO.
51	Vessel G.L 100 I				Brand new	Storage area Falluja 2	1927
52	Vessel G.L 100 I				Brand new	Storage area Falluja 2	1928
53	Vessel G.L 100 I				Brand new	Storage area Falluja 2	1929
54	Vessel G.L 100 I				Brand new	Storage area Falluja 2	1930
55	Vessel G.L 4.4 M3		Deditrich		Used before	Storage area Falluja 2	1931
56	Piece Column Haller				Used before	Storage area Falluja 2	1932
57	Piece Column				Brand new	Storage area Falluja 3	1934

New

0127

CHAPTER III - A

TYPES & QUANTITIES OF MUNITIONS PROCURED BY IRAQ
FOR C.W PROGRAMME

ITEM	MUNITIONS TYPE	TOTAL QTY PROCURED	QTY.MANUF LOCALLY	QTY. IMPORTED	DELIVERY YEAR	SUPPLIERS NAME	COUNTRY OF ORIGIN	L/C NO.	CONTR. CT NO.
1-	AERIAL BOMB 500	14829	329(AALD) RAW MATERIAL FROM L/C	2500(BR)	1983	EXPAL	SPAIN	54/3/83	14/53/82
				2000(LD)	1984	IT	SPAIN	3/52/84	124/3/84
2-	AERIAL BOMB 250	18000	845/3/88 10000 RAW MATERIAL FROM L/C	5000(AALD)	1986	IT	SPAIN	486/3/86	----
				5000(AALD)	1986	IT	SPAIN	962/3/86	----
				5000(BR)	1983	EXPAL	SPAIN	54/3/83	14/53/82
3-	ARTILLERY	85000	1650/3/84 ----	3000(LD)	1985	IT	SPAIN	3/52/84	124/3/84
				40000	1983	PBD	ITALY	----	982/AS/1 32
	SHELL 155 MM type M 110 smoke			35000	1985	IT	SPAIN	125/3/84	4/53/84
				10000	1984	PBD	ITALY	305/3/84	84/3/6

ITEM	MUNITIONS TYPE	TOTAL QTY PROCURED	QTY.MANUF. LOCALLY	QTY. DELIVERY IMPORTED YEAR	SUPPLIERS NAME	COUNTRY OF ORIGIN	L/C NO.	CONTRACT NO.
4-	AERIAL	1360	1360	----	1988	St. Est. for mechanical indus.		----
5-	BOMB DB2 AL-HUSSAIN WARHEAD	75	75 (25 OF WARHEAD FOR BW)	[include (61) DB-0] ---- 1990	Project 144 (The container only provided by the project 144) Nassar St. Est. Nassar St. Est.	----	----	----
6-	AERIAL BOMB R-400	1224	1024 200	---- 1990 1990	----	----		

ITEM	MUNITIONS TYPE	TOTAL QTY PROCURED	QTY.MANUF. LOCALLY	QTY. DELIVERY IMPORTED YEAR	SUPPLIERS NAME	COUNTRY OF ORIGIN	L/C NO.	CONTRACT NO.
7-	* ROCKET 122MM	126500	18000 WARHEAD ONLY Supplied by the project/144	10000 1985 (firos-25) 15000 1986 (firos 25)	PBD PBD	ITALY ITALY	55/85 86/1/86	TM-183 TM 214

8-	ARTILLERY	4000	4000	12000 1989 (Sakar 18) 6500 1986 (Sakar 30) 10000 1986 (Sakar 18) --- 1983	SAKAR SAKAR SAKAR SOTI (Hutteen) ---	EGYPT EGYPT EGYPT IRAQ CHINA CHINA	74/101/88 2/84 2/84 (empty casing only) (empty casing only) ---
9-	SHELL 130MM Mortor bomb	40000	---	40000 1985	---	20/3/85	740/3/88 PROTOCOLE PROTOCOLE
10-	120mm ROCKET MOTOR 122 mm	5000	---	5000 1985	---	20/3/85	---
11-	ROCKET 122 mm (conventional)	50000	---	20000 1988 30000 1989	---	Russia	From Army From Army

- There was no importation or procurement of munition after 1988 except what was mentioned in the above table.
- Some prototypes of munition were received from suppliers as illustrated in chapter(viii).
- An attempts to procure munition but this was not materialized as illustrated in chapter (viii) of the FFCD.

* THE TYPES OF 122 mm ROCKET ACCORDING TO TYPE OF WARHEAD ARE AS FOLLOW :
1- 9000 ROCKET WITH CARBON STEEL WARHEAD CONSIST OF THREE TEFZEL CANESTER WAS RECEIVED
AT 1986 FROM EGYPT.

2- 1000 ROCKET WITH CARBON STEEL WARHEAD RECEIVED AT 1986 FROM EGYPT.

3- 6500 ROCKET WITH CARBON STEEL WARHEAD CONSIST OF THREE TEFLON LINED CANESTER WAS RECEIVED
AT 1986-1987 FROM EGYPT (TOTAL CONTRACT 10000, I.E 3500 ROCKET WAS NOT RECEIVED.

4- 12000 ROCKET WITH CARBON STEEL WARHEAD CONSIST OF TWO POLY ETHYLEN CANESTER WAS RECEIVED
AT 1989 FROM EGYPT (TOTAL CONTRACT 20000, ROCKET, I.E 8000 ROCKET WAS NOT RECEIVED.

5- 10000 ROCKET WITH CARBON STEEL WARHEAD WAS RECEIVED AT 1986 FROM ITALY.

6- 15000 ROCKET WITH CARBON STEEL WARHEAD CONSIST OF TWO POLY ETHYLEN CANESTER WAS RECEIVED AT 1986 FROM ITALY (7000 SETS OF POLY ETHYLEN CANESTER WAS RECEIVED ONLY, I.E 8000 SETS OF THESE CANESTER WAS NOT RECEIVED).

7- 30000 CONVENTIONAL ROCKET RECEIVED FROM ARMY AT 1989.

The total value for the procurement of munition which was imported (172.7) million Dollar which not mentioned in the letter of credit but mentioned in the tables of (type & Qty. of munitions procured by Iraq for CW program). These are as follow :-

<u>LC No.</u>	<u>Company</u>	<u>Type</u>	<u>Value/\$</u>
124/3/84	IT	aerial bomb - (2000) gauge 500 type LD	5.200.000
		- (3000) gauge 250 type LD	
962/3/86	IT	aerial bomb - (5000) gauge 500 type AALD	7.000.000
125/3/84	IT	artillery shell 155 mm - (35000)	7.000.000
740/3/88	Sakar factory	122 mm Rocket - (12000)	18.000.000

20/3/85	Norengo/China	type Sakar-18 120 mm mortar shell (40.000) Rocket motor for 122 mm (5000)	16.000.000
1395/1/82	Sinia pbd	Artillery shell 155 mm - (40.000)	4.000.000
304/3/84	Sinia pbd	artillery shell 155 mm - (10.000)	19.225.000
55/1/85	Sinia pbd	122 mm Rocket (Firos-25) - (10.000)	29.250.000
208/1/86	Sinia pbd	122 mm Rocket (Firos-25)	

protocol(84/2)	Sakar factory	- (15.000)	26.000.000
		122 mm Rocket (Sakar 30) - (6500)	
protocol(84/2)	Sakar factory	122 mm Rocket (Sakar 18) - (10.000)	20.000.000
-----	USSR	Conventional 122 mm Rocket - (30.000)	21.000.000

*In August 11, 1987 Euromac Company was requested to offer for 10000 rocket 122 mm type Firos-25, the offer was not submitted so the matter was abandoned.

*The Swiss Company Boneventure was requested to submit an offer to procure empty casing for 155 mm and 122 mm aluminium rocket warheads with manufacturing technology, an offer with specifications was received for 155 mm, because of the high prices no agreement was reached, a sample for 122 mm aluminium warhead from Austria was received, but this was abandoned due to the success achieved in the local manufacturing.

*An offer was obtained from Al-Mashini Company (Jordan) to procure polyethylene canister for

the warhead 122 mm rocket, and also mold to manufacture the canister.

*In 1984, a group from Al-Muthana visited France to look on technical workshop of the aerial bomb manufacture, during the visit the group asked from the French side to procure proximity fuse for artillery shell and aerial bomb, but this was not materialized.

**TYPES & QUANTITIES OF MUNITIONS PROCURED
BY IRAQ FOR NON - C W PROGRAMME**

Type of munition	Qty. imported			
	1980	1981	1982	1983-1990
155 mm **	NIL	25120*	130000	NIL
Gauge 250				
Aerial bomb	NIL	NIL	NIL	NIL
Gauge 500				
Aerial bomb	NIL	NIL	NIL	NIL

* 760 shells was received from Kuwait as a Gift in 1981

* 4360 shells was received from Saudi Arabia as a Gift in 1981

** Filled with White Phosphorous.

***** Imported empty munition by Army *****

Type of Munition	Qty. imported			Qty. remaining	Location
	1980-1985	1986	1987-1990		
155 mm	NIL	NIL	NIL	NIL	NIL
AA/GP/400 *	NIL	2000	NIL	1576	AL-Taji military Depot
AA/GP/LD 500 *	NIL	3000	NIL	3000	Ditto
AA/GP/LD 1000 *	NIL	3000	NIL	2200	Ditto

* These munitions were imported not for the purpose of W.P. but for the purpose of H.E.

CHAPTER III- B

LIST OF CONTRACT NO.
FOR AMMUNITIONS

LIST OF LC NO.
FOR AMMUNITIONS

LIST OF PROTOCOL NO.
FOR AMMUNITIONS

NO.	CONTRACT NO.	NO.	LC NO.	NO.	PROTOCOL NO.
1-	14/53/82	1-	124/3/84	1-	2/84
2-	3/52/84	2-	486/3/86		
3-	982/AS/153 2	3-	962/3/86		
4-	4/53/84	4-	125/3/84		
5-	TM 214	5-	740/3/88		
6-	74/101/88	6-	20/3/85		
7-	TM 183	7-	1395/1/82		
8-	1532/AS/82	8-	304/3/84		
9-	223/AS/86	9-	55/1/85		
10-	3/53/84	10-	208/1/86		
11-	6/3/84	11-	1650/3/84		
12-	10/MS/84	12-	54/3/83		
		13-	305/3/84		

LIST OF LETTERS OF CREDIT FOR THE PRECURSOR CHEMICALS
PROCURED FOR CW- PROGRAMMES

	<u>LC.NO</u>	<u>EXPORTER</u>		<u>LC.NO</u>	<u>EXPORTER</u>
1-	251/3/82	TAFISA	35-	219/3/85	COMPANIES
2-	252/3/82	KBS	36-	2537/3/87	HIP

3-	380/3/82	ENTERPRISE	37-	1968/3/88	HIP
4-	537/3/82	TAFISA	38-	526/3/82	PRUSSAG
5-	1124/3/82	TAFISA	39-	790/3/82	HOCHEST
6-	263/3/83	KBS	40-	1024/3/85	COMPANIES
7-	266/3/83	DIE MUNCHI	41-	377/3/86	COMPANIES
8-	579/3/85	COMPANIES	42-	862/3/84	REINING HAUS
9-	2790/3/87	ORIAN	43-	431/3/84	KBS
10-	232/3/87	COMPANIES	44-	250/3/82	SCAPERT HOIZON
11-	1321/3/81	FLUKA	45-	421/3/86	WET
12-	979/3/82	KBS	46-	1457/3/86	KBS
13-	1090/3/82	KBS	47-	258/3/86	KBS
14-	416/3/84	KBS	48-	776/3/82	KBS
15-	870/3/82	KBS	49-	424/3/84	KBS
16-	1015/3/82	MELCHEMIE	50-	1058/3/82	KBS
17-	1091/3/82	KBS	51-	326/3/84	HADDAD
18-	257/3/83	KBS	52-	1120/3/83	KBS
19-	535/3/83	MELCHEMIE	53-	378/3/84	MELCHEMIE
20-	425/3/84	MELCHEMIE	54-	379/3/84	KBS
21-	1145/3/86	EXOMET	55-	292/3/84	KBS
22-	1874/3/87	KIM-AL-KHALEEG	56-	1401/3/84	REINING HAUS
23-	260/3/86	MELCHEMIE	57-	1114/3/84	WET
24-	973/3/84	EXOMET	58-	1205/3/84	MELCHEMIE
25-	1535/3/84	COMPANIES	59-	476/3/86	COMPANIES
26-	ABOZA'BAL	ABOZA'BAL	60-	291/3/84	MELCHEMIE
27-	1349/3/84	WET	61-	1093/3/84	WET
28-	1323/3/84	REINING HAUS	62-	850/3/84	REINING HAUS
29-	1121/3/83	KBS	63-	900/3/82	HOCHEST
30-	1292/3/84	COMPANIES	64-	811/3/88	WECO
31-	220/3/85	COMPANIES	65-	34/3/82	MELCHEMIE
32-	1450/3/84	REINING HAUS	66-	898/3/82	KBS
33-	1401/3/84	REINING HAUS	67-	429/3/84	KBS
34-	1242/3/84	MELCHEMIE	68-	1379/3/84	KBS

LIST OF LC NO. FOR THE PRODUCTION EQUIPMENTS
PROCURED FOR CW-PROGRAMMES

	<u>LC.NO</u>	<u>EXPORTER</u>
1-	2517/3/87	PROTIC
2-	567/3/84	DEDIETRICH
3-	489/3/84	WET
4-	1651/3/84	IT

5-	490/3/84	WET
6-	1250/3/84	QTL
7-	770/3/85	WET
8-	1073/3/83	PILOT PLANT
9-	869/3/82	PILOT PLANT
10-	185/3/85	WET
11-	31/3/84	PILOT PLANT
12-	315/3/87	NEUBURGER
13-	1187/3/84	WET
14-	7/3/87	WET
15-	1315/3/84	LENHARDT
16-	250/3/85	NEUBURGER
17-	666/3/86	NEUBURGER
18-	899/3/82	PILOT PLANT
19-	423/3/86	WET

LIST OF "CASH DEALS " FOR THE PROCURED ITEM FOR C-W ROGRAMME

This kind of commercial deal was very limited in the C.W - programme, it happened at the beginning of the program especially in 1981-1982 with a very limited amount for the procurement of materials. From recollection of memory the following items were bought through cash deal :-

- 1- Pumps from March May Company / England.
- 2- Gas cylinder from Premus Company / Sweden.
- 3- Line for filling domestic gas cylinders from Kozan Company / Denmark.
- 4- Rotary evaporators and lab. equipment from Buchi Co. / swiss.
- 5- Cash deal through commercial attache/ London

Diacelf 200 (resin for chlorine plant in Falluja II) supplied by Oriac international S.A, 3B, BOUIEVARD Prince Henri, Luxembourg 1727.

The payment through Commercial Attache/ London in 1990.

6-One senior staff from SEPP visited Swiss in 1982 Buchi Company during that visit Lab. equipments (rotary evaporator capacity one liter, spare parts for rotary evaporators and general lab. equipments) were procured from the Company, the payment was carried through Iraqi Embassy in Swiss.
Also an agreement was achieved about the design drawing of modified rotary evaporator capacity (50) liter which were purchased later.

EXPLANATORY NOTES ABOUT THE PURCHASES OF AL-MUTHANA
FOR THE PERIOD 1988 - 1990

A. Chemical Materials

- The activity in that period concentrated on purchasing the precursors specialized for the production of VX and mixtures of Sarin.
- The following materials have been bought from the following companies:

- Triethanolamine	50 tons	Kim Al-Khalij Co. LC/NO.87/3/1874
- P2S5	250 tons	EXOMIT Co. LC/NO.86/3/1145
- Sodium Nitrate	20 tons	Kim Al-Khalij Co. LC/NO.87/3/1874
- Chloro ethanol	190+10 tons	EXOMIT Co. LC/NO.86/3/1145
- Silica gel	10 tons	Kim Al-Khalij Co. LC/NO.87/3/1874
- Ethylene Oxide	required 50 tons (expecting 39 tons received)	Weco Co. LC 88/3/812 from cylinders and it doesn't exist in the file.
- Morpholine	15 tons	Kim Al-Khalij Co. LC/NO.87/3/1874
- Di-isopropyl amine	200 tons	EXOMIT Co. LC/NO.86/3/1145
	50 tons	Weco Co.
- HF	1.5 ton (35 cylinders/50 kg)	Kim Al-Khalij Co. LC/NO.87/3/1874
- Cyclohexanol	150 tons	HIP
-	1 ton	EXOMIT Co. LC/NO.86/3/1145
- Sec-butanol	20 tons	Weco Co.
-O-Chlorobenzaldehyde	50 tons	Weco Co. LC/NO.88/3/811

- Contacts were made in order to Procure key precursors for Mustard gas, Sarin and CS for the purpose to increase the stock and as follows :

a. Contact with Italian company (Euromac Company-contact person Mr.Kasim Abbass) in March 1988 for the purpose of obtaining precursors (e.g. T.M.P, HF, T.D.G).

The delegation made contact with Montideson Co. and Montiflor Co. in Melano-Italy, but the negotiation was not successful and no precursors were obtained .

b. Contacts with the following companies were carried out in order to supply the precursors especially TMP and TDG but the results were negative .

- Bemenco (Argentina).

- Hib Flour Co.(Germany)/representative of Heberger Co.(Germany).

- Universal Tr Co. (Canadian) representative : Abdul-Kader Thakub.

- Servio Co. (Cyprus). The contact was with telex only.

- There were importations for raw chemical materials may have been imported before or after 8.8.1988 and as following :

Acetic acid	20 ton Kim Al- Khaleeg
Acetic acid	10 ton Weco LC 88/3/2729
Pipronyl Butoxide	3 ton Weco
Tetramethrine	1 ton Melchemie LC 88/3/2642
Aluminium chloride	- Weco
Peramethrine about	0.5ton Weco
Zinc powder	20 ton Weco LC 88/3/1517

In addition, general chemical substances were imported from Hip Co. and Haddad Co. .

From the above mentioned paragraph (a & b) one conclude that :

1. There were no chemical raw materials (precursor for C W agents) imported in production quantities other than those mentioned in declarations and as mentioned above.

2. There were no other company or country dealt with other than the above mentioned companies and countries or that stated in our declarations .

B. The technical productions equipment and munitions :

1- No contracts were signed concerning munitions except the following:-

- 20 thousands rocket 122 mm /12 thousands were received from the Egyptian side (LC 88/3/740: It is not in the file but it has been recognized from the boxes) .
- Raw materials for production of 10 thousands bombs caliber 500 from I.T Co. (LC 88/3/845: not found in the file but it has been recognized from the boxes) .
- Raw materials from Boneventure/Swiss Co. which consist of top nose and filling caps LC No. 88/3/3911.

2- The technical equipment :

- The main supply is concentrated on the contract MC3 (a code No. for the inquiry) for the technical equipment .
The main suppliers are KIM Al-Khaleeg Co. and FCA Co.

KIM Al-Khaleeg Supplied :-

- (2) product tanks 4m3 Hastalloy
- Piping and fittings
- Stainless steel sheets

FCA Supplied :-

- (6) steam generators
- Hastalloy sheets
- 30 cooling unit with the accessories were bought and as follows
24 cooling unit with the accessories from Euramac Co. in 1988
6 cooling unit with the accessories from KBS Co. in 1988.
- Different welding machines (for the aerial bomb workshop) were bought in order to complete the production line of 500 caliber bombs specially from I.T Co., Esab Co. (Swedish) and Sandivick Co.(contact:Telex only) in 1988.
- Machines for the glass workshop from Herbert Arnold Co. in 1988.
- The rest of the purchases were spare parts, glass raw materials, test and measuring equipment and pumps.
- Barrels coated with Poly Ethylene from Schwender Co.
- There were a number of inquires concerning different production

equipment before cease-fire and many offers were obtained from declared companies, but no contracts were signed and nothing had been supplied. The purpose of these inquiries to establish four production sites in different places, each site consist of a plant to produce mustard and the other to produce sarin. One conclude that no production equipment have been imported in 1988 that have not been declared (covered by declarations formats) and no dealing had taken place with a company or country that with a company or country that was not known by UNSCOM .

3- A contract was signed with KIM Al-Khaleeg to supply us with the know-how LC No 88/10/24 and equipment and to supervise installing and operating the production factory T.M.P .

The know-how was obtained from the company and small part of the equipment were received.

- Decanter.

- Dissolver

- Nitrogen plant.

- There was an attempt from MSE to obtain offers for the ministry of industry for the HF production project and phosphorous production project.

- An offer was obtained from Kim Al-Khaleeg co. for the phosphorous Factory. The offer was given to the ministry of industry and negotiations were carried out between both sides.

FCA submit an offer to supply Know-how and technology for HF plant the above two projects were not executed.

- A contact with Cardeon company from Chile to submit an offer concerning phosphorous plant and supplying precursor (TMP & TDG) this was not fruitful.

- An Argentinian officer submitted a preliminary offer (without inquiry from Al-Muthana) for a plant of TDG and TMP. After studying these technical offer it appeared that the TMP offer was trimethyl phosphate and not trimethyl phosphite. Therefore, the above offer was neglected for both (TDG & TMP).

YEAR 1989-1990 :

- Receiving chemical precursors (e.g. PCl_3 start Jan. 1987 till Dec. 1989) and equipment (for TMP project) continued till 1990 through a contract that had been signed in 1987 and 1988.
- A contract was signed with TMC (German Co.) to deliver white phosphorous but the LC was canceled (LC No. 10/65801) (in order to operate A+B) PCl_3 + $POCl_3$ production plant.
And also (200) ton of white phosphorous was inquired from U.S.S.R through MIC in 1988-1989, no offer was received.
- No key Precursors was imported or contracted during the above period.
- All purchases were as follows:
 - a. Raw materials for pesticides e.g. :
 - DDVP from Kim Al-Khaleeg / Indian co. and lanceses link co./ Swiss co.
 - Malathion from Kim Al-Khaleeg / Indian co. and lanceses link co./ Swiss co.
 - additive materials (emulsifiers) from Perol/Swedish Co. and solvents from Hip Co.
 - Propanil from Lances Link / Swiss Co.
 - b. Completely manufactured pesticides.
Completely manufactured pesticides formulated were bought for the ministry of agriculture for the year 1990 from the companies: (e.g. I.C.I, Ciba Gigy, Dow, Roussel, Basf, Shell, Cyanamide, monsanto, Rohm & Hass ...etc.).
Pesticides were also bought through mediators (e.g. K+N/Greek, ERICK/German, Melchime premier/Cyprus).
 - c. Negotiations were carried out in 1989-1990 with a number of companies in order to get the Know-how to produce certain pesticides (formulated Pesticide) (e.g. I.C.I Co., Monsanto, Dow, Sandoz Raussel Uclaf Ciba Gige).

4. Projects for AL-Muthana.

- a. A contract was signed to purchase a production line of containers for insecticide manufactured from "Tin plate", from Lanico (German Co.) in 1990. The first delivery was received then it was stopped due to the Gulf crisis.
- b. A contract was signed with FONG.Kee Co. in 1990 (Taiwan) to deliver machines for plastic container production (100 ml-200 L) (through the American Co. : Tentrix).
The contract had not been implemented because of the Gulf crises.
- c. Negotiations were carried out with the German Co."Mall" concerning Aluminium containers production line 400 ml. The negotiation was cancelled.
- d. An offer was obtained for the metal containers filling line from Coaster Co. through FCA Co.
- e. An offer for distillation and separation of(B.T.X) (Benzen, Toluene, Xylene) substance from FCA Co. in 1990 and it was stopped.

5. From above, conclusion that in 1989-1990 no chemical substances objected to monitoring have been imported.
All our importations from chemical substances and equipment were related to pesticide production.

Ethylene Oxide

concerning issue raised from UNSCOM about inventory list in 1988 it appear that 165 tons of ethylene oxide was procured by MSE.
No such quantity was imported by MSE except what was mentioned above (39 tones) was procured. May be an error in that inventory. Iraq side scorch about such quantity discovered that Samara drug industry imported 160 tones of 12% ethylene oxide 88% dicloro difluro methane for the purpose of Babylon factory for disposable syringes as sterilizing agent.

***** CHAPTER III . C *****
PROCUREMENT NETWORKS

A) Governmental Institutions :

1- CENTRAL BANK OF IRAQ :-

Most of the procurement of the C.W programme, the letters of credit were opened through the Central Bank of Iraq for the period 1981-1988 with abbreviation X1/3/X2 Where

X1=the number of letter of Credit.

3=Section three in the Central Bank.

X2=Year.

2- RAFIDAIN BANK :-

After 1988 many letters of Credit were opened through different Branches of Rafidain Bank these Branches are :

- Main Branch /AL-Benook Street(Branch No.106).
- AL-Sinak Branch /(Branch No.10).
- AL-Reyade Branch /(Branch No.262 Cancelled).

3- AL-RASHEED BANK :-

- East Gate Branch / (Branch No. 505).
- Al-Reyade Branch / (Branch No. 506).
- Al-Shorja Branch / (Branch No. 42).

4- CORRESPONDENCE BANK :-

- Dresdner Bank / Aschaffenburg / W.G
- Union Bank of Switzerland / CH-9001 st.Gall
- Deutsche Bank Dusseldorf W.G
D-2000 Hamburg / Telex : 212535 - odhd
- Banco Exterior De Espana / Madrid
- Commerze Bank Dusseldorf

- Girozentrale / Wein
- Creditanstalt Banken Verein Vienna / Austria
- Amro Bank / Rotterdam / Telex : 22211
- Vereins and west Bank / Hamburg / W.G
- UBAE Arab German Bank / Frankfurt
- Rafidain Bank Amman Branch /Amman
- Deutsche Bank D- 3000 Hannover / W.G
- Dresdner Bank AG /Hannover /Telex :921920

- Gulf International Bank / London Branch/Telex:8812889 Gi Bank G
- Commerz Bank /D-6800 Mannheim /W.G
- Bank of Boston int / New York
- Gothard Bank /6901 Lugano / Swiss

- Bank of England. London.
- Midland Bank PLC-London.
- Rafidain Bank London.
- Lloyds Bank PLC-London.
- National Westminster Bank Plc-London.
- UBAF Bank Ltd,London.
- Barclays Bank London.
- The Dai-ich Kongyo Bank London.

- Banque De France Paris.
- Societe Generale Paris.
- Credit lyonnais Paris.
- Banque National de Paris France.
- Credit Commercial de France.

- Dresdner Bank AG Frankfurt.
- Deutsche Bank Frankfurt.

- Berliner Handels und Frankfurt.
- DG Bank Frankfurt.
- Westdeutsch landes Bank Dusseldorf.
- Bayerische landes Bank Munich.
- Hypo Bank Munich.
- Manufactures Hanover Trust Germany.

- Credit lyonnais Bank Netherlands Holland.
- Rabobank Netherlands Holland.
- ABN AMRU Bank Amsterdam.

- UBAF (Hong kong) Limited.

- State Bank of India.
- United Commercial Bank India.
- Central Bank of India.

- Banca Commerciale Italiano Italy.
- Banca Nazionale del lavoro Italy.
- Banca di Roma Italy.
- Credito Italiano Milano Italy.
- Banca popolare de Milano Italy.
- Banca Di Sicilia Rome Italy.
- Bank of valletta Ltd . Valletta-Malta.
- Bank of Newzealand.-Wellington Newzealand.
- Westpac banking Corporation - Newzealand.
- Den Norske Credit Bank- Oslo - Norway.
- National Bank of Pakistan - Karachi.
- Habib Bank Ltd- Karachi.
- Bank handlowy W. Warszawie- warsow.
- Qatar National Bank - Doha. State of Qatar.
- Romanian Bank for Foreign Trade - Bucharest.
- Islamic Development Bank - Jaddah.
- National Commercial Bank - Jaddah.

- Arab Bank Ltd. - Amman.
- Amman Bank for Investments. Amman.

- Mitsubishi Bank Ltd. -Tokyo.
- Bank of Tokyo, Ltd. - Tokyo.
- The Sumitomo Bank, Ltd. - Tokyo.
- Fuji Bank Ltd. - Tokyo.

- Union de Banques Arabes et Francaises (UBAF). Seoul.
- Korea Exchange Bank - Seoul.

- National Bank of Kuwait - Kuwait.
- Al-Ahli Bank of Kuwait - Kuwait.
- The Gulf Bank - Kuwait.
- The Commercial Bank of Kuwait - Kuwait.

- Post Och Credit Banken - Luxembourg.

- Perwira Habib Bank - Kuala Lumpur - Malaysia.
- Crediet Lyonnaise - London.
- Banque commercial de luxembourg./(Oriac) /Mr. Frans

B) Governmental Companies & Institutions :

- 1- State Organization for Chemical industry (SOCI)/ Paper Company.
BAGHDAD / AL-RASHEED Street / AL-SINAK /Telex : 213090 SEPP IK
IRAQ .
- 2- State Establishment for oil Refining and Gas processing (SORG)
only Paper Company.
Al-Sa'adoun Street /Baghdad Hotel Complex /
P.O.Box : 2075 Alwiyah /Telex :
- 3- State Organization for technical Industries (SOTI).
Baghdad / Palistinian Street.
- 4- Ministry of defence / Armament and supply directorate.
- 5- Air force / supply tail fin for R-400 from their own stock (1200
tail fin).
- 6- Chemical corp / supply gas mask and protective clothes.
- 7- Hutteen state Est. / supply empty casing.
- 8- Qaqa state Est. / supply fuses and SO3 and smoke canister for
Military training.
- 9- Project 144 / supply AL-Hussain warhead and warhead for 122 mm Rocket.
- 10- St. Est. for mechanical industries / supply aerial bombs DB-0
and DB-2.
- 11- Nassar St. Est. / supply aerial bomb type R-400.
- 12- petroleum research center / several joint research were carried out
between P.R.S and Al-Muthana during 1989 - 1990.

Material procured through SORG :-

<u>ITEM</u>	<u>QUANTITY/TON</u>	<u>LCNO. & COMPANY</u>
TDG	400	85/3/579 Companies
TDG	650	87/3/2790 Companies
TDG	350	87/3/232 Companies
PCL3	50	84/3/535 Companies
TMP	100	84/3/1292 Companies
TMP	56	85/3/220 Companies
HF	200	85/3/219 Companies
POCL3	130	84/3/1535 Companies
POCL3	250	85/3/1024 Companies
POCL3	250	86/3/377 Companies
Dimethylamin	5	86/3/476 Companies
Control valves	---	10/66771 Companies
O-Chloro	50	88/3/811 Weco
Benzaldehyde		

MATERIAL PROCURED THROUGH SOCI/SEEP

<u>ITEM</u>	<u>COMPANY</u>	<u>LC/NO</u>
Technical equipment	Pilot plant	83/3/1073
Pumps Acc to prof.	P.P	83/3/1079
Mechanical equipment	Sitac	83/3/867
Air-condition/Scrubber	K.Kolb	82/3/989
Spectrophotometer	Perkin Elmer	86/3/269
Steam jet pumps system	Neuberger	86/3/263
Chemicals	Fluka	85/3/747
Chemicals	Fluka	85/3/1114
Workshop of stores	WTB	85/3/772
glasslined piping materials	WET	85/3/771
Technical equipment	Ludwinghammer	83/3/1124
Scrubber system	Heberger	84/3/778
Technical equipment	Wormald Eng.	83/3/133
Technical equipment	Buchi Lab	82/3/1197
Liquid Nitrogen Producing Plant	Philips Export	86/3/718
Technical equipment	WET	85/3/787
Pumps	Preussag	84/3/1197
Lab equipment	Supped Co	85/3/784

Technical equipment	WET	85/3/799
Chemical (190 Ton)	Melchmie	83/3/824
Chemicals	Exomet	86/3/1145
Chemicals	WET	86/3/1365
Chemicals	Melchemie	84/3/1205
Chemicals	WET	85/3/444

(PROCUREMENT NETWORK)

***** Private foreign Companies :- *****

COMPANY NAME	ADDRESS	ENTITY NAME	LC.NO./DATE OF TRANSACTIONS	MATERIAL	QUT. TON	BROKER/MIDDLEMEN
PILOT PLANT	W. GERMAN Y/ FRANK FURT AM MOLKE NBORN 2,D 6072, DREIEI CH	KARL KOLB	967/3/81	Erecting sys.in		FRINZIL/HERMAN
		NEU BURGER LENHARD T	1104/3	Hebergers Building Different pumps		
		PROTIC	1340/3	Technical Instrument		
		LAB CONSULT	50/3/82	Ditto		
			167/3/82	Warning sys.		
			168/3/82	Vacuum		
			169/3/82	Technical Equipment		
			190/3/82	Vacuum		
			869/3/82	48-51,92-102,122,123 126-128,130,131,134-136,183-187,265,298-309,316-333 *		
			872/3/82 899/3/82 150/3/83	Miller & Dryer 271,296,297 * Tank for G.Reactor		

NEUBURGER KUNSTSTOF FIN- DUSTRIE GMBH	AUSTRI A A-8692 AD MURZ LECHE M 14	PILOT PLANT	1101/3/83	Reactor	FRINZIL/HER MAN
			1073/3/83	40- 47,137,138,139, 140,146- 148,173,179- 182,294,295,310- 315*	
			1079/3/83	Pumps	
			1081/3/83	Technical Equipment	
			1082/3/83	Humid fire unit	
			31/3/84	55,56 *	
			37/3/84	Ventilation equi.	
			188/3/84	Anti Acids pipes	
			243/3/84	Ventilator	
			266/3/84	Technical Equipment	
			821/3/85	Drying Equipment	
			501/3/86	Vacuum pressure Apparatus	
			250/3/85	116,117,129,132, 227 -231,263,266 *	
			488/3/85	pipes & Valves	
669/3/85	Spare parts				
670/3/85	Tanks				
145/3/86	Vacuums				
262/3/86	Technical Equipment				
263/3/86	Vacuums				
499/3/86	Spear parts				
500/3/86	Ditto				
666/3/86	197,218,219,224- 226, 274,276,278- 281,290*				
697/3/86	Spare parts				
1420/3/86	Ditto				
1461/3/86	Ditto				

			1514/3/86 224/3/87 315/3/87	Ditto Ditto 59-63,188- 196,209- 213,247-252 *	
LEHNHARDT		KARL KOLB PROTIC LAB CONSUIT NEU BURGER PILOT PLANT	1315/3/84	115,267-270,291- 293*	FRINZIL/HER MAN
PROTIC	FRANC E	KARL KOLB	65417/10	Thermal Oil	FRINZIL/HER MAN
	S-A 23,RUE DE HOUT POINT F-68400	NEU BURGER	380/3/86	Circulator Softener Unit	
	RIDISH EIM TLX 881010 F	LENHARD T PILOT PLANT LAB CONSULT	2517/3/87	1-6,141-143,149- 172, 198-208,214- 216,220, 232,234,236- 246,253- 254,257- 262,288,289*	
			2187/3/87	Additional Mixer for Tifzel Reactor	
			2931/3/88	Spare parts	
			2160/3/88	Valves	
LAB CONSULT GMBH	W.GER MANY AM MOLKE NBORN 2 D-6072 DREIEI CH	KARL KOLB NEU BURGER	693/3/86	Coating Equipment Technical Equipment	FRINZIL/HER MAN
		LENHARD T	669/3/86		
		PILOT PLANT	1363/3/86	Ventilator	
			2976/3/86	Spare parts	

KARL KOLB	W.GER MANY P.O BOX 102040 6072 DREIEI CH TLX.041 7981 KOLB-D PROTIC TEL.(06 103)653- 0	PROTIC				
		LAB CONSULT	608/3/82	Scientific Instru.	FRINZIL/HER MAN	
		NEU BURGER	777/3/82	Two Tanks		
		LENHARD T	793/3/82	Furniture erecting		
				Equi.		
		901/3/82	100Suit			
		PILOT PLANT	923/3/82	Lab. Equipment		
			925/3/82	Instrument		
			956/3/82	G. Instrument		
			989/3/82	Cooling Equipment		
			1053/3/82	Lab. Equipment		
			1059/3/82	Lab. Vehicle		
			181/3/83	Tables		
			333/3/83	Additional Eq.		
			518/3/83	Supply & Erection Eq.		
			543/3/83	Spare parts		
			580/3/83	Filling Equipment		
			659/3/83	Technical Equipment		
			770/3/83	Tube Bender		
			781/3/83	Spare parts		
	1021/3/83	Water Cooler				
	1100/3/83	Technical Equipment				
	1062/3/83	Metal Covers				
	1195/3/83	Supply Reaction Tech.				
	1125/3/83	Technical Equipment				
	430/3/84	Ditto				
	1486/3/84	Lab. Equipment				
	796/3/85	Ditto				
	255/3/86	Ditto				
	259/3/86	Filtering Machine				
	502/3/86	Lab. Apparatus				
	503/3/86	Lab. pumps				

		504/3/86 511/3/86	Lab. Apparatus Viscosity Measuring Apparatus		
		492/3/86	Microscope Device		
		695/3/86 903/3/86 908/3/86 909/3/86	Spare parts Polarization inst. Lab. Equipment Spare for Lab. Equ.		
		911/3/86 1360/3/86 1534/3/87 1565/3/87 2885/3/87 2886/3/87 2887/3/87 1217/3/87	Lab. Equipment G.Spare parts Measuring Inst. Vacuum sys. Welding Wires Sites Spare parts Spare parts Holes Testing device		
		2188/3/87 2319/3/87 10/66380 1918/3/88 737/3/79 871/3/81 341/3/82 1046/10/82 6629/78/91 7171/78/91	Lab. Equipment Density Meter Lab. Unit G.& Machines Air Ducts ? Tools Materials Expects Wages Lab. Cooling Unit Stores Cooling sys.		
FLUKA CHEMIE AG	SWISS 25CH- 9470 BUCHS- SCHWE I	1321/3/81 39/3/84	Suspected TDG Lab. Chem.		
		1346/3/84	Lab. Chem.		
		1114/3/85 747/3/85 783/3/85 494/3/85	Lab. Chem. KI Lab. Chem. 3.Hydroxy Methyl	0.6	
		238/3/85 913/3/86 726/3/86 257/3/86 526/3/87	Lab. Chem. Lab. Chem. Lab. Chem. Lab. Chem. Lab. Chem.		
MELCHEMIE	HOLLA	34/3/82	O.ChloroBenzald		WEIMAN

	ND JANSPU ITENSI GEL 20 P.O BOX 143 6800 AC ARNHE M TLX 45523 MELC NL		1015/3/82	ehyed SOC12	100	
			535/3/83	SOC12	750	
			824/3/83	NaOH+DCM+W P		
			291/3/84	KHF2	100	
			378/3/84	IP	150	
			425/3/84	SOC12	1000	
			1080/3/84	CH2Cl2	600	
			1205/3/84	KHF2	20	
			1242/3/84	HF	5	
			1251/3/84	Unknown		
			1637/3/84	Unknown		
			260/3/86	KI+CH2CH	600	
			2642/3/88	Unknown		
BUCHI	SWISS		192/3/82	Technical Equipment		CHBLUNKER
	CH 9230 FLAWIL TLX 77403		525/3/82	Spare parts		
			1098/3/82	Heating Equipment		
			1196/3/82	Technical Equipment		
			1197/3/82	Ditto		
			695/3/83	Ditto		
			714/3/84	Eq. Spare parts		
SCHUCHARD T HOHENBRU N	W.GER MANY/ MUNIC H		250/3/82			
TAFESA	W.GER MANY HILDES HIMER STRASS E 7 P.O.BO X 5924 3000		251/3/82	TDG	25	
			537/3/82	TDG	50	
			1124/3/82	TDG	250	
			689/3/83	Unknown		
			854/3/83	Unknown		

KBS	HANNO VER 1 TLX 923510 SVHAN	219/3/87	Unknown		
	HOLLA ND/ B-V P.O.BO X 554530 AB TERNE UZEN	252/3/82	TDG	50	M.L. SAKHEL
		389/3/82	Oxygen Tanks		
		776/3/82	DMA.HCl(Suspe cted)	10	
		870/3/82	SOCl ₂	50	
		898/3/82	O.ChloroBenzald ehyed	7	
		924/3/82	Monochlorobenze n		
		979/3/82	Unknown		
		1058/3/82	TDG(Suspected)	100	
		1090/3/82	TDG(Suspected)	250	
		1091/3/82	SOCl ₂	100	
		245/3/83	Technical Equipment		
		257/3/83	SOCl ₂	250	
		263/3/83	TDG	500	
		335/3/83	Unknown		
		1120/3/83	IP	100	
		1121/3/83	TMP+DMP HCl	20+100	
		1122/3/83	Ethyl Alcohol		
		46/3/84	Water Chiller		
		87/3/84	Technical Equipment		
		292/3/84	KHF ₂	100	
		379/3/84	Chemicals		
		413/3/84	pipes & Valves		
		416/3/84	Chemicals		
		427/3/84	Chillers		
		429/3/84	Molononitril	14.4	
		431/3/84	TMP	500	
424/3/84	NaCN+CH ₃ I	500+2			
517/3/84	CH ₃ I	2			
776/3/84	G.Lined pipes				
777/3/84	Vacuum pumps				
819/3/84	pumps				
820/3/84	Technical Equipment				
934/3/84	?				
1113/3/84	Chlorobenzene	50			

Preussag	W.Germ any P.O BOX 4840 D3000 HANOV ER 1 TEL.(05 11)4206- 1	1167/3/84	Heat Exchanger	2		
		1379/3/84	Dimendelic Acid			
		1490/3/84	Unknown			
		1534/3/84	Unknown			
		1543/3/84	Valves			
		1612/3/84	Unknown			
		332/3/85	Filling Heads			
		424/3/85	Chemicals			
		813/3/85	Packing for towers			
		814/3/85	Valves			
		562/3/85	spare parts			
		1203/3/85	Pipe & valves			
		1457/3/86	DMA-HCl			100
		256/3/86	G.L. Tubes			
		450/3/86	presure Mesuring Equ.			
		498/3/86	Welding Wires			0.361
		569/3/86	Unknown			
670/3/86	Spare parts & Tech. Equipment					
1365/3/86	Chloroamine	100				
1306/3/87	Measuring Inst.					
2304/3/87	Tubes					
2504/3/87	Welding Wires					
2891/3/87	Chillers Spare Parts					
2090/3/87	Cables					
310/3/88	Pneumatic Valves					
962/3/88	G.Material					
1024/3/88	Spare parts	100				
1746/3/88	Phenolformaldeh yde					
65740/10	Eq. Spare Parts					
65758/10	Iron Balls	100				
1058/3/82	NaCN					
253/3/82	Two Water Freezing Unit	30	NIZAR AL- KADI			
313/3/82	500Chlorine cylinder					
526/3/82	POCl3					
1021/3/82	Fire Extinguisher					

	TLX. 923523		80/3/83 868/3/83 1080/3/83 1539/3/84 1540/3/84 1541/3/84 1542/3/84 1558/3/84 1609/3/84 1679/3/84 1786/3/84 1787/3/84 1356/3/84 1363/3/84 1425/3/84 1453/3/84 1489/3/84 1537/3/84 1142/3/84 1143/3/84 1197/3/84 1239/3/84 1331/3/84 1097/3/84 1101/3/84 1091/3/84 1104/3/84 1111/3/84 1092/3/84 1094/3/84 1138/3/84 1139/3/84 1140/3/84 925 /3/84 966 /3/84 967 /3/84 1016/3/84 1020/3/84	Trucks Chlorine cylinder Cranes G.Cating M\C Telephone Cables Car Washing M\C Ice maker Electric Dis. Board Raw material Net Kitchen Equipment Tile Grinding Machine Spare parts Equipments 500 container with Valves Medical Equipments Equipments spare parts Steel Pipes & plats Pumps Tech. Equipments Pumps Electric Dis. Board machine & Equipment tire unit Spare part Cooling Unit Cables 1000M(12box) Agricultural Equ. Fire extinguisher U. Spare parts Cranes & Chains Limit Switches Spare parts Spare parts Prevention Equ. Warning Sys. Batteres 43A/4 Tieres		
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		465 /3/84	Cranse /5	
		479 /3/84	Crude Water Supply U.	
		480 /3/84	Cranse /5	
		491 /3/84	Carvans	
		536 /3/84	Hydraulic lift	
		270 /3/84	Tech. Equipment	
		290 /3/84	Valves	
		312 /3/84	Frion cylinders	
		347 /3/84	Incinerator /2	
		30 /3/84	Hallon cylinders	
		535 /3/84	Crude Water net work	
		80 /3/84	Spare parts	
		92 /3/84	Equ. & Spare parts	
		99 /3/84	Industrial Equ.	
		116 /3/84	Filling Station	
		189 /3/84	Spare parts	
		190 /3/84	Equipment	
		197 /3/84	Chemicals	
		201 /3/84	Laundry	
		836 /3/85	Equ.	
		837 /3/85	Paints	
		838 /3/85	Safety shoes	
		839 /3/85	Spare parts	
		1014/3/85	Folders	
		1054/3/85	Spare parts	
		1113/3/85	Elivatore	
		1115/3/85	Workshop Equipment	
		533 /3/85	Spraying machine	
		534 /3/85	H.T,Cable	
		535 /3/85	Blook manufacturing machine	
		586 /3/85	Flexable houses	
		786 /3/85	Instrumentation cards	
		789 /3/85	air filter	
		414 /3/85	Water treat. plants	
		451 /3/85	?	
		454 /3/85	Tech. Equipment	
		457 /3/85	Mercedes Cars	
		458 /3/85	Lab. Equipment	
		460 /3/85	Tech. Equipment	
		492 /3/85	Library Equipment	
		517 /3/85	Pipes & fitting	
		526 /3/85	Raller & dumper	

			164 /3/85 290 /3/85 301 /3/85	Silos mercedes trucks Welding Equipment Machines H.T.cables Specialist truck Vacuum Pumps Mechanical machines Communication Equ.		
			353 /3/85 357 /3/85 370 /3/85 372 /3/85 401 /3/85	Lab devices Water Pipes network Spare parts Pumps, spare part Plastic gloves voltage stabilizer compressors valves		
			406 /3/85			
			1362/3/86 694 /3/86			
			508 /3/86 2804/3/87 309 /3/88 621 /3/88 958 /3/88 2510/3/88			
Hochest	W.Germ any		790 /3/82	POC13	10	NIZAR K. JAWDAT
			900 /3/82	O.ChloroBenzald ehyed	10	
			773 /3/84	Spare part		
Keramchemie	W.Germ any		38 /3/84	anti acid tiles		
			1051/3/80	compersate material		
			91/78/7103 529 /3/82 1066/10/82 1117/3/79	tower production Lap equipment Experts wages Bricks		
			785 /3/84 794 /3/82	compersate ? Material for gas system		
Dow corning	W.Germ any		868 /3/82	Equipment		
			1138/3/83	Litheam-800		
Vitalograph	ENGLA ND MAIDS MORET ON		1092/3/82	Medical equipment		
			1566/3/87	Medical instrument		

	HOUSE BUCKI NGHAN MK 18 1 SW					
HAHN & KOLB	W.Germ any		1240/3/82	Equipment		
UNIC	ENGLA ND		78/3/83	Animal unit		
POLYMA	W.Germ any		79/3/83	Generators		
	P.O.BO X 102849 D 3500 KASSEL		378/3/83	Spare part		
			792/3/85	Electric generators		
			509/3/86	Spare part,generator		
			2303/3/87	H.T. equipment		
WARMALD	KAISER ESTATE LOWER GROUN D FLOOR 41 MAN YUE STR. HUNG HOM KPWLO ON HONG KONG TLX HX 79433		133/3/83	Fire extinguisher		
			317/3/80	Supply-Erection		
			236/3/82	Forklift		
			491/3/86	Heat sensors		
INTERPRISE	BRAZIL	EVIBRASE	380/3/82	TDG	100	
HERBERT	W.Germ any		381/3/82	Machine & Equipment		
ARNOLD	P.O.BO X 1220 WEILST		194/3/84	Tech. Equip.		
			3096/3/88	Glass machines		

	RASSE 6, 6290,WE ILBURG / LAHN TLX 484231 ARLO D				
NUWAY ENERGY	ENGLA ND		594 /3/82	Fire cement	
			871 /3/82	Civil &Tools equip.	
			797 /3/85	Spare parts	
			7116/42	Erecting burning	
PHB	W.Germ any		264/3/83	Shelves for cooling	SCHWENDE R
			32 /3/84	Equipment	
MERK	W.Germ any		335 /3/83	Chemical material	
			357 /3/83	Lab. Chem.	
HERAUSE	W.Germ any		358 /3/83	Analyzer	
	ENGLE RSTR 11 6900		1063/3/83	Air,Press	
	HEIDLB ERG		2315/3/87	Heating tape	
	FAX INT.622 1/3043 43		223/3/87	Spare parts	
RIDEL DEHEIN	W.Germ any		371/3/83	Lab. Chem.	
			121/3/84	Chloroamin	
EIVS	FRANC E		434/3/83	Tech. equipment	
			2631/3/87	Pumps,Spare parts	
			4835/42	Scientific equip.	
TSA.AUSSEN H- AEND	W.Germ any		592 /3/83	Catting machine	

AL,SHAREF CO.	EGYPT	694 /3/83	Supply&erecting pipes
K S U	SWISS	826/3/83	Cars lift
HEWLETT PACKARD	SWISS 7RUE DU BOIS DULAN, 1217 MEYRI N GENEV A	855/3/83 1115/3/84	Data process units Computer
ENGICO	W.Germ any	856/3/83	Vacuum cleaner
LANSING	U.K	869/3/83 1449/3/84	Forklift Spare parts for Forklift
LUDWIG	W.Germ any	1072/3/83	Electric power stat.
HAMMER	BRUGH ANNEN 8752 KLEINO STHEIM P.O BOX 1107 TLX.418 8692 TEL.(06 027)809 6-9	1124/3/83 1409/3/84 1200/3/84 1262/3/84 1107/3/84 712/3/84 832/3/85 926/3/85 559/3/85 580/3/85 774/3/85 439/3/85 497/3/85	Tech. equipment Electrical station chillers Equipment Spare parts Electric power stat. Electric equipment Electric equipment Ventilation Elumination equip. Alarm system H.T.station Electric boards

I.T.E	SPAIN/E MILIO VARGA S 20-6 28043 MADRI D TLX.492 83 TEL.413 5895 4135963		727/3/86	Tools&cables	JAFEAR
			270/3/86	Electric equipment	
			698/3/86	Spare parts	
			915/3/86	Electrical works	
			265/3/86	Electric equipment	
			1355/3/84	Electric trans	
			1650/3/84	Elec.equi.&materi al	
			1651/3/84	17,19,103- 108,124,125 144,145,174,255, 256*	
			1652/3/84	Elec.equi.&materi al	
			66/3/85	Special equipment	
PIGANT E.E. SCHWENDE R KG	FRANC E W.GER MANY ORANIE NWEG 17 D-4530 IBBENB UEREN TLX.945 81 TEL.054 51-8000	909/3/84	486/3/86	Tech. equipment	SCHWENDE R
			268/3/86	Tech. equipment	
			2242/3/88	Welding Machine	
			1660/3/84	Distillation Unit	
			1678/3/84	Steel flat pallets	
			900/3/84	Welding Machine	
			Equ. & tools		
			486/3/84	Air Compressor	
			1380/3/84	Machine & Equ.	
			26/3/84	Tech. equipment	
829/3/85	Barrel holders				
452/3/85	Spare parts				
146 /3/86	Equ.&tools for Store				
725 /3/86	Analyze device				
1594/3/87	Spare parts				
2888/3/87	Chillers Spare parts				
164/3/87	Machine&Tech.E qu.				
145 /3/88	Pneumatic valves				

			655/3/88 65464/10 65702/10 901/3/86	Spare parts Equipment Lathe tools P.E Coating drums		
			1747/3/88	Elec.lines Inspect Unit		
SOUTH WALES	U.K		1712/3/84	Spare parts		
BRAITH	U.K		1239/3/83	Water Tanks		
SUMITOMO CORPORATI ON	JAPAN C.P.O.B OX1524 TOKYO 100-91		1123/3/83 566/3/85	Different Cars Land Crozer Car		
			443/3/86	Cars Spare parts		
			945/3/85 459/3/85	4 Cars Elect. Cables		
AIAX	ITALY		1555/3/84 1521/3/84	Spare parts spare for Cooling		
GEORGE FISHER	W.GER MANY CH-8201 SCHAFF HAUSE N MFD 3974		1557/3/84	Pipes		
			1661/3/84 772/3/84	flanges Pipes & valves		
			692/3/86	Plastic Pipes		
			700/3/86 478/3/86 2803/3/87	Pipes & pumps Spare parts Pumps Spare Parts		
			2093/3/87 1288/3/87	Tech. equipment Anti Corrosive Pipes		
TALABAC TRADING CO.LTD	HONG KONG 2940 WINGO N- CENTE R 111 ONNAU GHT ROAD	GIG	1785/3/84	Special Equipment		
			667/3/86	Equipment		
			141/3/87	Vacuum & pipes		

	CENT L					
GIG	AUSTRI A	TALABAC	438/3/86	Prod. Equipment		
CEILCOTE	W.GER MANY		496/3/86	Pumps & Spare parts		
GMBH	D-6083 BIEBES HIM RHEIN, P.O.BO X 1120		668/3/86	Tech. equipment		
			1806/3/84	Spare parts		
			831 /3/85	Pumps		
			1052/3/84	fiber G. Water tanks		
			493/3/84	Softener Units		
			1040/3/85	Gas mashing Units		
			415/3/85	Ashing rines		
			229/3/85	filling tanks		
			311/3/85	Heat isolation material		
			276/3/85	Pumps& spare parts		
			496/3/86	Pumps& spare parts		
			820/3/87	Instrument		
HYSTER	U.K		1348/3/84	Fork lift		
			1350/3/84	Fork lift		
W.E.T	W.GER MANY /	T.E.T	1349/3/84	PCl3+NaF+KI	32+54+	LEIFER
MASSAFIND OU	LEUNA STRAB E 50-		1424/3/84	pumps&spare parts	0.268	
ZEKOM LTD	2000 HAMBU RG-50 TLX.2 165950 WETD TEL.040 -8560 44		1426/3/84	Steel Equipment		
			1427/3/84	Pumps& spare parts		
			1141/3/84	P.P.Pipes		
			1187/3/84	64-84,109-110 *		
			1093/3/84	NaF	52.8	

0167

			1095/3/84	Spare parts	
			1096/3/84	pumps	
			1106/3/84	G.pipes	
			1114/3/84	KHF2	38
			489/3/84	8-13,15,16,18,20-28*	
			490/3/84	29-33 *	
			1258/3/85	Equipment	
			1259/3/85	Equipment	
			1260/3/85	Lab. Equipment	
			65/3/85	Engineering Services	
			1743/3/85	Computer	
			884/3/85	Cylinders	
			35/3/85	Desine & drawing	
			798/3/85	Equipment	
			769/3/85	Tech. equipment	
			770/3/85	37-39 *	
			771/3/85	IP	10
			772/3/85	Warehouses	
			773/3/85	Warehouses	
			787/3/85	Tech. equipment	
			788/3/85	Tech. equipment	
			790/3/85	Tech. equipment	
			444/3/85	CH3I	2
			185/3/85	52-54 *	
			242/3/85	Inspection Equ.of Chemical Unit	
			1364/3/86	Spare parts	
			1462/3/86	Pumps	
			896/3/86	Spare parts for fire fitting	
			904/3/86	Machine & pipes	
			907/3/86	N2 generator	
			910/3/86	Spare parts	
			914/3/86	Cl2 detector	
			916/3/86	machine & workshop	
			917/3/86	Spare parts	
			918/3/86	KI	3
			950/3/86	Spare parts	
			474/3/86	Dichloromethane	58
			671/3/86	Tech. Equipment	
			721/3/86	Electric fork lift	
			722/3/86	pent&coating material	
			724/3/86	Weighing device	
			720/3/86	H.T.Cable	
				Equipment	
			447/3/86	Pipes Juneten	

			448/3/86 465/3/86 449/3/86 497/3/86 507/3/86	Pipes for tankes Spare parts Tech. Equipment Spare parts Metalcoating apparatus		
			510/3/86 378/3/86	Carrying , Tools Elec. Power station		
			382/3/86 383/3/86 421/3/86 423/3/86 437/3/86 229/3/87 1855/3/87 7/3/87	S. parts for stat. Lab equipment DMH HCl 272,273 * chemical factory Spare parts Water pumps 85-91,111- 114,118- 121,133 *	60	
			1527/3/88 1467/3/88 1920/3/88 2890/3/87	Spare parts A+B equipment Spare parts S. parts for reactor		
			717/3/86	Vacuum system		
T.E.T	W.GER MANY / HAMBU RG	W.E.T	2073/3/88 2410/3/88	Pumps,Spare parts Tech.pressure reducer		
PHILIPS	HOLLA ND / AMSTE RDAM P.O.BO X 218 5600 MD EINDH OVEN		517/3/83 1117/3/84 718/3/86 1017/3/88	Spare parts Intercommunicati on N2 device Voltage stabilizer		
REINING	W.GER MANY		1401/3/84	TMP+KHF2	15+20	
HAUSS			1450/3/84 1323/3/84	TMP+POCl3+Na CN PCI3+TMP+POC	15+13.68+2 0 5.12+15+	

			850/3/84	I3	10.26	
			862/3/84	NaF	2	
				POCl3+NaCN+N	3.04+16+	
				aF	17.6	
SHOTT	W.GER MANY		1408/3/84	Glass material for		
GLASS	P.O.BO X		1403/3/84	work shop		
	101152			Glass Equipment		
WARE	D		2801/3/87	Pumps,Spare		
	8580			parts		
	BAYRE		2650/3/88	Glass raw		
	UTH			Material		
	TLX		1359/3/86	Lab.material		
	642786			&Equi.		
	SORU		1456/3/84	Tanks		
HORSELEY	U.K		949/3/86	Unknown		
BRIDGE	PANAM		476/3/86	DMA	5	
COMPANIES	A		377/3/86	POCl3	250	
INCORORAT	VIA		232/3/87	TDG	350	
ED	MADRN		1024/3/85	POCl3	250	
	O 10,		579/3/85	TDG	400	
	6900		1535/3/84	PCI3+POCl3	50+130	
	LUGAN		1292/3/84	TMP	100	
	O		219 /3/85	HF	200	
			220 /3/85	TMP	56	
ORAC	LUXEM		2790/3/87	TDG	650	FRANSE
	BOURG					
	30,					
	BOULE					
	VARD					
	DE					
	LA					
	FOIRD					

FCA	SWISS VIA DELLE AIE 1/A 6900 LUGAN O		1873/3/88	Tech. Equipment		
JETRACO	W.GER MANY		1188/3/84	Spare parts		
			727/3/84	Spare parts		
AB GROEDERNA EXBERGS	SWEDE N		1198/3/84	pipes & Fitting		
A H B TECHNOCO MERZ			1249/3/84	Spare parts		
VFF CO			1253/3/84 450/3/85	Tower Packing Ball Ring		
MOTOR AIR			1261/3/84	Air compressors		
AL HADDAD	U.S.A		775/3/84	Tiflon pipes		SAHIB AL- HADDAD
ENTERPRISE S	3212 WEST END AVENU V NASHVI LLE, IN37203		313/3/84	Tech. Equipment		
INC.			326/3/84	DMMP(Suspecte d)	60	
			793/3/85	Air Compressors & Dryer		
			785/3/85	pipes		
			461/3/85	filters		
			105/3/84	Unknown		
			847/3/85	Equipment		
			1343/3/84	Chemical literatures		
PERKIN ELMER	U.S.A		1345/3/84	Spare parts		

		420/3/84	Equipment
		421/3/84	Spare parts
		423/3/84	Spare parts
		460/3/84	Spare parts
		269/3/86	Annalyzing apparatus
		2876/3/88	Spare parts
DEVAINTS	BELGIUM	983/3/84	Spare parts
		752/3/84	Spare parts for Cooling Unit
MARTIN	W. GERMANY	1105/3/84	Flunges & nuts
MERKEL	P.O.BOX 930280 D 2102 HAMBURG 93	480/3/86	pipes material
		198/3/84	pipes
		2802/3/87	Teflon pipes
		2302/3/87	Teflon Hose
		2974/3/88	Teflon tubes
EUROPLAST		774/3/84	P.E tubes
DAIKIN	JAPAN	901/3/84	Air condition
DAIKIN KOGYO		412/3/84	Spare parts
HEINRICHS	W. GERMANY	959/3/84	Flow meters
MEINBURK	W. GERMANY	962/3/84	Inspection Equip.
ELECTRICAL	D-8000 MUNCHEN 45	1192/3/85	Communication Equip.
GMBH CO.KG	LUGOLDSTADTER STR.43 TLX 5215545	3681/3/88	Wireless Sys.
		823/3/83	Radio -Telephone
		1807/3/84	Communication Sys.

	MEIN D		1611/3/84			
EXOMET	INDIA	KIM ALKHALL EEJ	973/3/84	PCI3+POCI3+Na CN	300+250+5 0	KAMAL AL- SAUDI
PLASTICS	401KAK AD CHAMB ERS 132 DR,ANN IE BESAN T ROAD, WORLI, BOMBA Y 400018		1145/3/86	SOCI2+DMA HCl	1000+300	
KIM KHALLEEJ	SINGAP ORE MIDDL E ROAD,1 6-20 FORTU NE CENTE R 0718	EXOMET PLASTIC	24/10/88	Documents		KAMAL AL- SAUDI
			899/3/88	Tech. Equipment		
GEKA	W. GERMA NY		1057/3/84	Oil Electrical Gases		
FOXBORO	JORDA N P.O.BO X 3361A MMAN		1081/3/84	Control Unit		
			713/3/84	Control&mussare ment Sys.		
			192/3/84	Instrument. Equi.		
			795/3/85	Temp. Controllers		
			438/3/85	flow meter		
			182/3/86	valves		

DON GRESSWELL	U.K		1082/3/84	Lib.rary Equipment		
EXPOSEL			461//3/84	Tech. Equipment		
PULLEN PUMPS	U.K		464/3/84	Pumps		
			812/3/85	Pumps		
PAUL HEDFELD	W. GERMA NY		484/3/84	Spiral Conveyozisi		
			407	valves Tankers for chemical		
			715	A+B project equ.		
ALLWEILER			487/3/84	pumps&spare parts		
SIHI CO.	W.GER MANY LANDE STRA SSE		492/3/84	pumps&spare parts		
	170 D-2210 ITZEHO E		1039/3/85	pumps&spare parts		
			518	pumps&spare parts		
			665/3/86	drain pumps		
DEDIETRICH	FRANC E		567/3/84	7,14 *		
DUEKER	W. GERMA NY		515/3/84	pipes		
			65696/10	lined spare parts		
			267/3/86	G.L tubes		
HAUKE	AUSTRI A		523/3/84	force pumps		
	P.O.BO X 63		445/3/85	spare parts,pumps		
	CUMBE SLAND STR.		948/3/86	S. parts for pumps		
	46/50		2598/3/87	pumps spare parts		
CIBA GEIGY	SWISS		902/3/86	lab. equ.		
			716/3/84	material & equ.		

			159/3/85	acid resistance paints		
RUSTON DIESEL	U.K		728/3/84	generator,S. parts		
DERMAN DIESEL	U.K		729/3/84	generator,S. parts		
MECS INT INC	JAPAN		314/3/84	micro film sys.		
	5-25-6- 606		191	copy machine		
	MINANI DAI NAKAN O- KU,TOK YO		2163/3/88	spare parts		
			221/3/87	spare parts		
			475/3/85	micro film sys.		
WINTER			324/3/84	gas leak detector		
MAGNETRO L			380/3/84	Equipment		
JOSEF BERTSCH			381/3/84	Thermal Oil Plant		
LEWA HERBERT	W. GERMA NY		408/3/84	pumps		
	ULMER STR.10 P.O.BO X 1563 D 7250 LEONB ERG BEI STUTT GART		821/3/87	pumps		
PFAUDLER WERKE	W. GERMA NY		406/3/84	Scrabber		
CH.ABSTRA CTS SERVIES			74/3/84	Tech. Equipment		
			140/3/84	micro film sys.		

ORLITA GMBH CO.	W.GER MANY MAX- EYTH- STABE 10,63 GIEBEN		73 /3/84	pumps		
SOFRAF			100/3/84	Industrial Equipment		
TAYLOR			193/3/84	Instrumentation Equip		
EEER	FRANC E		1200/3/85	Drainage Network		MICHAEL RANJFEAL
			1199 409	Air washers spare parts		
O B O	W. GERMA NY		819/3/85	Elec. Equ.		
PYE UNICOM	U.K		820/3/85	Analyzing Material collector Equ.		
	YOURK STR. KAMBR IDGE,E NG		294			
	EB,2PX TEL. 0223- 358866 TLX.817 351 PY KAM		600/3/87	spectrophot meter		
			900/3/86 264	lab. Equ. S. parts for lab.Equ.		
			265/3/87	lab. Instruments		
			290 696/3/86	lab. device chromotography device		
BEST CORPORATI ON	JAPAN		830/3/85 434	Air conditioners Air conditioners		
RICHTER	W.GER MANY P.O.BO X 609 D		325/3/84	Valves		
			1083/3/85	Valves		

	4152 KEMPE N 1		794/3/85	Valves		
			1625/3/86	spare materials		
			274/3/88	spare parts		
			2577/3/88	Valves		
			2973/3/88	spare parts		
			3309/3/88	lined Valves		
COGELEX	FRANC E 13 RUA ANTON IN RAYNA UD 92309 LEVAL LOIS PERRET CODAX		1075/3/86	Electrical stations		
BDH	ENGLA ND BROOM RD. POO LE. DORSE T B.H.12, 4NN		1049/3/86	Lab. Chem.		
			899/3/86	Lab. Chem.		
SUPELCO	SWISS CHEMI N DU		784/3/85	lab. Equ.		
			116/3/86	spare parts for		
				water sweetener units		
	LAVAS SON 2, 1196 ELAND		477/3/86	lab. materials		
			898/3/86	lab. materials		
			1361/3/86	Analyzing materials		
COULTER	ENGLA ND NORTH WELL		1459/3/86	spare material		
			891/3/87	spares & Access. for		

	DIVELU TION,B UDS, LU3,3R D		135/3/88	lab. In. spare parts		
LE TELMECANI Q- UE	FRANC E		1460/3/86	Analyzer Device		
GANSSEN	BELJIU M TURNH OUTSE WEGE 302340 BEEVSE BRUXE ELS		1534/3/86	Chemical Materials		
UHDA	W.GER MANY D.4600 DURTM UND 1 TLX.822 841-32 UDD TEL(023 1)547 2996		4/10/85	Chlorine plant		
			6/10/85	Chlorine plant		
			86/3/85	Chlorine plant		
			29/10/86	Engineering doc.		
TRANE			239/3/85	Cooling Equipment		
			1771/3/88	spare parts		
WERNERL- PUPERM	W.GER MANY		165/3/85	pumps&spare parts		
BRAND	W.GER MANY		317/3/85	spare parts		
RITZ	W.GER MANY P.O.BO X 1780 7070		568/3/85	pumps		
			993/3/88	spare parts		

	SCHWA EBISCH GMUEN D FED				
MANTECH	KUWAI T P.O.BO X 20228 SAFAT	632/3/85	490/3/86	220/3/87	Computer spare parts Access. of print mach.
INTEREYIM	FRANC E 27 RUE DE LA MICHON DIERE- 75002 PARIS	741/3/85			pumps
KARL LUTZ	W.GER MANY P.O.BO X 390 ERLEN STR 5-7, 6980 WERTH EIM 2	791/3/85	381/3/86		pumps pumps
F.U.G.N		2301/3/87			H.T Equipment
YOKOHAMA	JAPAN	2632/3/87			spare parts
GLASWERK WERTHEIN	W.GER MANY P.O.BO X 1265 ERNST- ABBE STR -16980 WERTH EIM	2407/3/87			Raw material&manuf- acturing Glass Apparatus
ZINSER	W.GER	2316/3/87			spare part for

	MANY P.O.BO X 1440 D7333 EBERSB ACH/F			oxygen cutter		
HIP	W.GER MANY	2537/3/87		Cyclohexanol	50	Dr.LUTZ DYCKERHOF F
	D.5000 KOLN 41 P.O BOX 420208 TLX.888 1951 HIP D TEL(49) 2233165 091	1968/3/88		Cyclohexanol	100	
		65733/10		Xylene		
ENDRESS- HAUSER	W.GER MANY P.O.BO X 1261 7864 MAULB URG	2674/3/87		Humidity meter		
FRANZ KLAUS- UNION	W.GER MANY P.O.BO X 101349 BLUME NFELD STR. 18D- 4630 BOCHU M 1	2763/3/87		spare part		
BOEHRINGE R	W.GER MANY SANDH OFER STR 116 P.O.BO	512/3/86		lab. chemicals		

PANDS	X 310120 6800 MANNH EIM 31		495/3/86	spare parts		
LIBHERR	W.GER MANY P.O.BO X 1361,D- 7930EHI NGEN/E ONAU		493/3/85 719/3/86	Cranes spare parts		
SULZER	SWISS DORNA CHER STR.210 CH-4002 BASLE		664/3/86 2649/3/88	Air pumps Kiraback stuff		
EUROCLIMA	ITALY LOVEN ZNERST RASSE, 36,39031 BRUNE CK		464/3/86	Cooling Equ.		
GALLENKA MP	ENGLA ND BELTO N ROAD WEST LOUGH BOROU GH LEICES TORSHI RE LENTO R		897/3/86	lab. Equ.		
LABSCO	W.GER		905/3/86	lab. Equ.		

	MANY P.O. BOX 1728-D 6360 FRIEDERICH		906/3/86	lab. device		
METTLER INSTRUMENTE	CH-8606 GRELFE NSEE IM LANGACHER, 8 606 GRELFE NSEE SCHWELZ		912/3/86 266/3/87	lab. device Temp. Analyzer		
WTB	W.GERMANY		444/3/86	Stores Erection		
			445/3/86 951/3/86	Stores Erection Supply & Install of Civil works		
PHARMACIA	SWEDEN M AB S- 751 82 UPPSALA		266/3/85	Lab. Chem.		
			505/3/86	Lab. Material		
LUMMUS	U.S.A.		9/3/87	gas chromatography		
			261/3/86	Lab. Equipment		
FREDRICHSELD			2889/3/87	pumps spare parts		
ORLITA	W.GERMANY		2088/3/87	pumps spare parts		
OXOID	ENGLAND WADE ROAD		494/3/86	Lab. materials		

CARL ZEISS	BASING STOK HANTS R,G24 OEW TLX 858793 G W.GER MANY P.O.BO X136911 380D 7082 OBERK OCHEN		506/3/86	Microscope		
AVIV BLOM EDICAL	U.S.A 810 TOWEI N AVENU E P.O.BO X 994 LAKEW OOD NEW J 08701		291/3/87	Spectro Photo Meter		
JOUANNT	FRINCE RUE BOBBY SANDS CASE POSTAL 3203 44805,8 AINT HARBL AIN CEDEX		780/3/87	Lab. Device		
LKB	ENGLA ND CANBRI DGE SCIENC		781/3/87 607/3/88	spare parts Electro Phorecess		

	E PARK,M ILTON ROAD				
PHOENIX	W.GER MANY P.O.BO X 901140, 2100 HAMBU RG 90 TLX 0217571 PXHHD		1289/3/87 2977/3/88	Valves & Pumps Teflon Tubes	
PURPACK	W.GER MANY RHEINS T-5-D- 6054 RODGA V 2		2089/3/87	Scrale Instrument	
ARESCON	BAHRA IN P.O.BO X 2774 MANA MA		2091/3/87	D.30 TM device	
WEIR	SCOTL AND		2092/3/87	Pumps	
MESSER GRIES- CHEIM	W.GER MANY P.O.BO X 101530, 6000 FRANK FURT		8/3/87 338/3/88	Welding Machines Welding Machines, Equ.	
SIGMA	ENGLA ND FANCY ROAD,P OOLE DORES		142/3/87 65756/10	Lab. Chemicals Lab. Chemicals	

	T BH 17-7-NH TLX 418242S IGMA G					
KARDEX ORGANISATI ONS SYSTEM GMBH	W.GER MANY NIEDER HOECH STAED TER STR.64 6242 KROMB ERG		218/3/87	Cabinet		
JAKOB THALER	W.GER MANY 2357,WE DDELB ROOK UBER NEAUM UNSTE R NAHE HAMBU RG		222/3/87	Tools for Cables		
WECO INDUSTRIAL PRODUCTS EXPORT GMBH	W.GER MANY WILHE LMSTR 45, POSTFA CH 1448, 5200 SIEG BURG		46/3/88 2648/3/88 2729/3/88 2880/3/88 3444/3/88 65714/10 65718/10 811/3/88	Zn Powder Chemical for Pesticides Raw materials Chemical for Pesticides spare parts spare parts HgCl2 O.ChloroBenzald ehyed	7	GEORG GAZZY
					50	

BOBININDUS	BELGIUM RIJKSWEG, RUISBROEK- PUURS	134/3/88 66537/10	spare parts spare parts		
ESAB	UAE P.O. BOX 8964 DUBI	308/3/88	Welding Machine		
BUSC(GHVN)		307/3/88	spare parts		
ASE	BELGIUM 58 CENTURY CENTER PUS 1.B.2018 ANTWERP	352/3/88	Freon Cylinder		
MOTIVAIR	ENGLAND TWICKENHAM TRADING ESTATE RUGBY ROAD TWICKENHAM MIDDLE X TW1 1DH	484/3/88	spare parts		
AHRENS	W.GERMANY	83/3/88	Valves		
KLINKHART CO.	50 RHEIN GOLDWEG 2000 HAMBURG	1593/3/88	balances 5 ton		

EURMAC	RG 56 ITALY MANUFACTURER CENTER VIA AMPERA N.5,2005 2 DLX 351073		874/3/88 1871/3/88 2930/3/88	spare parts,cooling Tech. Equipment Cooling Unit		
RYCOFT	ENGLAND DUNCOMBO ROAD, BRADFORD BD8 9TB		957/3/88	Air compressor,spare parts		
BOEHRINGE MANNHEIM			1101/3/88	Solutions		
ADOBADE	W.GERMANY RABOISEN 16,D 2000 HAMBURG		1234/3/88	Belts		
SICA	BELGIUM 9,RUE DU PARADIS 5960 ORP		1240/3/88	Flow meter Unit		
ARMSTRONG	U.K. PEARTREE ROAD		1335/3/88	Spare parts		

	STANW AY COLCH ESTER 6SSEX CO3 5JX TEL 987858 ARMCO L G				
WESPER			1461/3/88 1748/3/88	spare parts Metal discs	
M.K.JUCHHE LM	W.GER MANY 6400 MOLTK ESTR 13/3 P.O.BO X 1209		1770/3/88	spare parts	
SANDVIK	SWEDE N P.O.BO X 12 S- 163, 93 STOCK HOLM		1859/3/88	Lathe,tools	
F.G.BODE CO.	W.GER MANY P.O.BO X 900167 2100 HAMBU RG 90 TLX 217600 MALAC D		1872/3/88	Glass Equipment	
BEMENCO			1256/3/88	Raw materials	
FSL INT.	U.K 27 HOXTO		1922/3/88	spare parts	

	R SQUAR E LANDO N NI6 NN TLX 9419022 FSL INT G				
OCHSNER	OBERF ELD STR. 8 P.O.BO X 60 A- 4024 LINI TLX 214390C HSNR A		1923/3/88	spare parts	
GRANDFOS	DENMA RK 9620 AALES TRUP, TLX 60267 B GFOS DK		1921/3/88	spare parts	
MUNSCH CHEMIE	W.GER MANY D-5412 RANSB ACH 2 TLX 863150 PUMA D		1991/3/88	spare parts	
KSB			2979/3/88	Pumps	
WINKELMA NNT			3442/3/88	Tanks	
BONAVENT URE	SWISS P.O.BO		3911/3/88	Special material Production	

	X 314, 1211 GENEV A 12				
UMIVERGEL TRELDING			65421 /10	Chemical material	
REMECO			65462/10	Pressed Air- Cylinder	
ZETILER			65463/10	spare parts	
IUTZ			65484/10	Vertical pump	
WALLAETTI E- RNAN			65757/10	spare parts	
SANDVIC			65802/10	Carbide dies	
FESTO			65719/10	spare parts	
ALDASA			65778/10	distillation Unit	
MIDLAND			66106/10	pump-spare parts	
NEUMAN	W.GER MANY		2978/3/88	spare parts	
KLOCKNER	W.GER MANY P.O.BO X 1880 5300 BONN 1		2972/3/88	spare parts	
ALEXANDER WIEGAND GMBH	W.GER MANY P.O.BO X 480,8763 KLINGE NPERG TLX 689231 A- WIK-A-D		2975/3/88	pressure gage	

GUHRING	W.GER MANY	2159/3/88	drills&Screws		
KRUPP WIDIA	W.GER MANY P.O.BO X 102161 D4300 ESSEN	2162/3/88	Lathe tools,for CNC		
PARKFAME	ENGLA ND 23MELR OSE GARDE NS MAMM ERSMIT H LANDO N W 6	2161/3/88	spare parts		
YORK	U.S.A	2388/3/88	spare parts		
MARLEYE COOLING TOWER CO.	U.S.A 5800 FOXBR IDGE P.O.BO X 2612 MISSIO N,KANS AS 66201	2405/3/88	towers spare parts		
SABROE	W.GER MANY P.O.BO X 1810 DK 8270 HOEJER G	2441/3/88	Valve Relief		
WREYAND	W.GER MANY	2511/3/88	spare parts		
SIEMENS	W.GER MANY	2647/3/88	Head testing Unit		

	P.O.BO X 3240,D 8520 ERLAN GEN TLX 62921-0 SI D				
GLASSWERK	W.GER MANY		2932/3/88	Glass Raw material	
WISLY HUGES			91/77/6336	Maps, Desigus	
			42/7598	Air-Conditions	
EXPAL	SPAIN		83/3/54	Contract 4/53/8	JAFEAR
KNOEDLER			3777/106	spare parts	
LANCESLIN K			66431/10	Pesticide Malathion DDVP for Formulation	
APPARATEP AUE			66491/10	Heat Conveyer Unit	
TELENORMA			2076/106	Operator, spare parts	
CHRONPACK	HOLLA ND CHROM PACK PACKA RD BV VULCA NUSWE G 259 P.O.BO X 519, 2600 AN DELFT		1686/3/87	N2 generator	
PACKARD	HOLLA ND		1887/3/87	Chromotography	

				Instrument		
DR.SCHALE R & LONGE	HOLLA ND PORNK ANPSW EG 139//147 2000 HAMBU RG 50		1457/3/86	Tech. Equipment		
GRESCHBAC H INDUSTRIE	W.GER MANY P.O.BO X 430180, 7500 KARLS UHE 41		699/3/86	Chemicals		
			1347/3/84	Equipment of 2 Warehouse		
QUINTON (TRA)			1250/3/84	Tech. Equipment		
MARKARTE R WISKANS			1010/3/82	50 Suit		
HOXID			779/3/83	Fork Lift		
SCABERT HOIZON			250/3/82	DMA HCl	10	
Q T L			1250/3/84	34-36,235,287 *		

NOTE :- * THE NUMBER MEAN THE ITEM IN THE TABLE TYPE &
QUANTITIES OF PRODUCTION EQUIPMENT PROCURED
BY C W - PROGRAMME/ 5 FEB. 1996

PROCUREMENT THROUGH GOVERNMENTAL AGREEMENTS OR
CONTRACTS

No procurement for Al-Muthana State Est. was made through governmental

agreements or contracts. However, contracts were made directly with enterprises of foreign countries as follow :-

1- Egyptian Enterprises :

There was a contracts between the Iraqi government and the Egyptian Enterprises (Sakar Factory & Abo-Zaabal Factory) in 1984 according to this many chemicals and munitions supplied to Iraq . Chemical supplied to Iraq from Abo-Zaabal Factory(Protocol /1) were shipped to AL-Kuddiyimi port and then transported to Iraq by trucks the end user certificate of the chemical was Iraq.

The munition supplied to Iraq from Sakar factory (Protocol /2) were shipped to Aqaba and then transported to Iraq by trucks the end user certificate of the munition was Jordan.

2- Chinese Enterprises :

The Iraqi procurement from China in 1985 was only munitions (120 mm mortar shell and Rocket motor for 122mm) (Contract No. : 20/3/85 from north industrial company (Norenc)) . Which were shipped to Aqaba and then transported by Trucks to Iraq the end user certificate of the munition was Jordan.

PROCUREMENT THROUGH THIRD COUNTRIES OR COMPANIES
IN THIRD COUNTRIES

1- Companies supplied chemicals to Triest port.

Responsibility stopped there upon request of SORG.

Shipping documents were handed over to Italian shipping and forwarding company, called Italteco with offices in Milan.

And the same for all chemical supplied from Japan by companies.

2- Oriac Co. supplied TDG 650 Tons from USA, N.U Kraft (the Brokars Co.).

Which purchased from the manufacture company called Alcolac in 1987-1988 in Paltimor.

After the 3rd shipment Alcolac company asked for a end user certificate.