ANNEX III [Original: English]

Distribution plan for phase XII Submitted by the government of Iraq to the Secretary-General in accordance with the memorandum of understanding of 20 May 1996 and Security Council resolution 1409 (2002)

EXECUTIVE SUMMARY

- 1. The present Distribution Plan has been prepared in accordance with Section 2 of the Memorandum of Understanding between the Government of Iraq and the UN Secretariat, (referred to herein after as the "MOU"), signed on 20 May 1996 for the purchase and distribution of food, medicine, medical supplies and equipment and other supplies necessary for the essential civilian needs to help alleviate the hardships suffered by the people of Iraq. The plan constitutes an important element in the implementation of SCR 1409 of 14 May 2002 and the Secretary-General's report of 19 November 2001 (S/2001/1089). It includes a classified list of supplies and goods to be purchased and imported by Iraq for this purpose.
- 2. For the three northern Iraqi governorates, namely Dahuk, Erbil and Sulaymaniyah, the procurement and distribution of essential civilian humanitarian supplies as well as rehabilitation activities will be the responsibility of the United Nations Inter-Agency Humanitarian Programme, (hereinafter "the Programme",) in accordance with paragraph 20 of the MOU and paragraphs 3 and 6 of its Annex I. In accordance with paragraph 2 of Annex I of the MOU, the humanitarian requirements of the three northern governorates in the Distribution Plan, (hereinafter "the Plan") were identified by the programme, taking into consideration all relevant circumstances in the three northern governorates and in the rest of the country, in order to ensure equitable distribution. These requirements were discussed with the Government of Iraq and incorporated in the Plan.
- 3. A total amount of US \$ 5083.37 million shall be available to meet the humanitarian needs of the people of Iraq, plus spare parts and equipment for the Iraqi oil industry. The Plan allocates US \$ 1275 million for food sector and US \$ 199.60 million for food supporting and handling supplies sub-sector. The general food basket provides 2472 kilo-calories and protein, especially animal protein (as dried whole milk and/or cheese) which will contribute 8.5% of total protein, and as reflected in table below. The inclusion of weaning cereal for infants fills an important nutritional need. An amount of approximately US \$ 40 million from the allocation to the food sector will be used to import raw materials for processing of vegetable oil, soap, and detergent, implementation of which would be under the food handling sector.

General rations	Plan XII
Calories (Kcal)	2472

Protein-non-animal	51.70
Protein-animal	8.50
Total protein	60.20
Infants	Plan XII
Calories (Kcal)	696
Protein	19.7

- 4. Fortification of vegetable oil with Vitamin A will help reduce the proven public health problem of this deficiency. Fortification of salt with iodine will continue as before, to reduce the problem of Iodine deficiency disorders, known to be prevalent throughout Iraq. The distribution of food will be carried out within the existing framework according to the ration system currently applied, which is described in the previous distribution plans.
- 5. The Plan allocates US \$ 199.60 million for the food-handling sector for spare parts and equipment, pursuant to the activities of storage and transportation of foodstuffs and grain milling as well as delivering them to consumers in conformity with the quantities of goods imported, in accordance with the MOU.
- 6. US \$ 150 million is allocated to the Medical Services sector, 50% of which is for the import of equipment and required items for the rehabilitation of different equipment in Hospitals and Health Centres, while the other 50% is for the import of medicine and medical supplies. It should be noted that all Iraqi citizens, Arab and foreign residents have access to public health services. Medicine for chronic diseases will be the first priority among others. Spare parts will be purchased to repair service equipment, such as air-conditioning equipment and hospital elevators throughout the country. Subject to the provisions of the MOU relating to the three northern governorates, health commodities will reach the beneficiaries through hospitals and primary health care centres using the existing distribution system. The Plan allocates US \$ 20 million for the three northern governorates, for medicines and medical supplies (Bulk Purchase). In addition, US \$ 48.20 million is allocated for the rehabilitation of hospitals and health infrastructure in the three northern governorates.
- 7. US \$ 10 million is allocated for supplemental nutrition support for pregnant and lactating mothers, by providing high protein biscuits and Therapeutic Milk, which will be distributed on a monthly basis to pregnant mothers in their last trimester, to lactating mothers for three months after birth, and malnourished children through Community Child Care Units/MOH in Iraq. Micro-nutrients, (Iron and multi-vitamins), will be distributed to pregnant and lactating mothers through MCH centres. With roughly 50,000 births per month, the funds allocated for this distribution plan are sufficient to provide the additional caloric requirements for pregnant and lactating mothers.

- 8. The conditions of potable water and sanitation systems remain critical throughout Iraq. Rehabilitation requirements are estimated over US \$ 700 million, in addition US \$ 150 million to complete the unfinished project to serve 1.8 million inhabitants residing in Baghdad and other governorates. The garbage collection had been neglected due to the shortage of funds and the sector needs US \$ 30 million to purchase spare parts and new equipment. However, due to limited funds, the Plan allocates US \$ 457.54 million, of which US \$ 191 million for Baghdad serving about 6 million people in the city and its surrounding districts. US \$ 150 million to be provided for the rehabilitation of water and sanitation facilities in the remaining governorates. including US \$ 116.54 million for the rehabilitation of water and sanitation facilities in the three northern governorates. The UN Secretary-General's report of 19 November 2001 (S/2001/1089) stressed that the programme has focused on sustaining the existing urban coverage, and pointed out that the inequity of water availability in semi-urban and rural areas needs to be addressed urgently. Equipment will be imported to rehabilitate potable water and sanitation facilities in Baghdad and other governorates.
- 9. As a result of the destruction inflicted on the electricity sector and the lack of spare parts and equipment for maintenance, the condition of the network has severely deteriorated resulting in frequent and prolonged power cuts to the consumers, including essential services such as hospitals, water treatment and sewage plants, wheat mills, irrigation and drainage pump stations, schools, universities and fuel stations. Although, the total allocation under previous phases increased substantially, the network continues to deteriorate for two main reasons: the scale of inputs received is significantly low in comparison with actual needs, and the large number of contracts on hold. The report of the UN Secretary General in March 2000 (S/2000/208) refers to this situation. This was compounded by a severe regional drought in the last three consecutive years, which has reduced the power generation from hydro units by more than 350 MW. While the drought period fortunately took end, eventually there is still a deficit in power generation that should be urgently addressed. The details of installed capacity, available capacity, load demand and deficit in power are shown Annex-I/ Electricity. One measure that would remedy the present situation is the immediate approval of the large number of contracts presently on hold. However, the impact of current measures can be realized only after not less than two years owing to long lead-times required for manufacturing the electrical system equipment, spare parts, and time required for installation.
- 10. The investment required to rehabilitate the electricity sector is beyond the allocation indicated in this Distribution Plan; however, to address minimum requirements, this Plan allocates US \$ 311.20 million for this sector.
- 11. Within this allocation, US \$ 86.2 million has been earmarked for the three northern governorates. The allocation for the northern governorates is essential to continue the rehabilitation of the distribution network, ensure supply of fuel for the 29 MW plants providing electricity to essential services, to make allowance for interim generation until such time as reconnection is established, to ensure the operations and maintenance of installed small diesel

generators and to address power system control and communication facilities. The allocation will also support the establishment of a metering system and tariff structure to monitor and manage energy consumption and supply.

- 12. The vital role of the Agricultural sector is enhancing the availability of locally produced food items, mainly animal protein, vegetables, fruits and other oil seed crops. The Plan intends to address the basic needs for veterinary infrastructure rehabilitation, and upgrading of the veterinary service capacity to respond to epidemic diseases. The plan also considered needed resources to sustain the GOI poultry programme. Expansion in fish production as well as the enhancement of dairy production have been addressed within the available meagre resources.
- 13. The sector will receive US 442.10 million to respond to urgent needs. Of that amount, US \$ 185 million is allocated to the irrigation sector (Centre and South) to address part of the water resources rehabilitation and project construction needs, and to partially secure needed equipment and spare parts.
- 14. Of the balance, US \$ 216 million is designated to agricultural production, including poultry production, in the Centre and south and US \$ 41.10 million has been allocated to the agricultural and irrigation sub sectors in the three northern governorates of Iraq. The Plan has focused on the enhancement of domestic food production in order to contribute towards improving the diet of the population as this concerns both quantity and quality, in particular micronutrients, vitamins and animal protein. The proposed activities cover the provision, of the basic inputs for vegetable, fruit and animal production. These include inputs needed for soil preparation, irrigation, fertilizer, plant protection chemicals, and drugs for the control of animal diseases.
- 15. Primary, Secondary and Higher Education sectors are in need of major rehabilitation work. The effects are clear on schools and other educational facilities; there are 5000 damaged school buildings. There is also severe shortage of books, whereby there is an actual need for preparing more than 50 million books annually. Due to a lack of, printing materials, spare parts and paper, the printing facilities of the Ministry of Education have stopped. All schools suffer from severe shortages of laboratories, aid and training materials. Besides of all the above mentioned difficulties, the sector is suffering severely from shortage of transportation. This undermines teachers and student rehabilitation and training. Higher education and public education have been also affected by the shortage of books and materials required by scientific departments of Iraqi universities. The needs of higher education for laboratory equipment required for students in medicine, pharmacy, and agriculture will be provided. Other general needs, such as reference books, spare parts for laboratory equipment, photocopiers and educational supplies will be made available. In addition as stressed by the UN Secretary-General's report of 19 November 2001 (S/2001/1089) items such as school rehabilitation materials warrant more attention. This sector will receive US 233.94 million, out of this amount US \$ 146.51 million will be provided for primary and secondary education of which US \$ 71.51 million is allocated for the three northern

governorates. For Higher Education this plan allocates US \$ 94.6 million of which US \$ 11.29 million for Higher Education in the three northern governorates.

- 16. The Housing Sector is aimed at those who require immediate new housing and to support their permanent settlement in appropriate places and at assisting population in cities and towns to ensure better housing conditions. A total funding of US \$ 56. million is allocated to this sector. For the three northern governorates the programme aims, through the provision of integrated housing and related basic services packages and through the rehabilitation of general infrastructure to provide adequate permanent living conditions in rural as well as in urban areas to large groups of the population who live in unacceptable conditions. Those who are eligible and waiting for a permanent solution to their housing problems will be provided with emergency shelter, relief items, water and sanitation to ensure the availability of minimum accommodation conditions. Social support will also be extended in newly established communities. A total funding of US \$ 151.3 million is allocated to the Settlement Rehabilitation Sector in the three northern governorates.
- 17. Landmines in the three northern Governorates continue to claim the lives of many people. An estimated 20% of the arable land of the region cannot be cultivated because of land mines. The implementation of humanitarian programme, including resettlement, is also being severely hampered by lack of access to significant areas. The programme aims at clearing mines in areas close to rural communities, economic activities, electricity transmission and distribution lines and resettlement towns. Training, mine awareness and establishment and expansion of prosthesis centres are also among the priority activities. The current Plan allocates US \$ 19.21 million for the required activities in this sector.
- 18. The present condition of telecommunications and transportation throughout Iraq, including the three northern governorates, is extremely poor and requires immediate attention. A viable system of communications is integral to the life of the community and the successful implementation of the "Oil-for-Food" Programme, including distribution of food and medicines in a more effective manner. Communication inputs, including telephone systems have been introduced, which are essential for information flow among service providers, for health education to communication and households, for co-ordination of sectors like food, agriculture, education, cultural, emergency health services, and environment. Due to the limited amount of funds, US \$ 278.5 million have been allocated, of which US \$ 27.50 million is allocated to cater for the basic telecommunication needs in the three northern governorates.
- 19. The increasing need for humanitarian assistance in the central and southern governorates, particularly to the most needy groups in the society and the lack of sufficient resources to support essential activities such as repair of basic infrastructures, amelioration of public health services, improvement of water and sanitation programmes manifests the need for special allocations that address exigencies in these areas.

- 20. Since the start of humanitarian programme, it has become increasingly apparent that available funds have been inadequate to provide for all the humanitarian requirements. Therefore, the provision of additional resources in a targeted manner would be most effective in addressing the specific requirements of most needy segments of the population.
- 21. An allocation of US \$ 354.59 million has been made available under the distribution plan to cover some essential needs including improvement of dwellings, access to potable water, access of water in remote areas, provision of sanitation facilities and amelioration of the sewerage systems. The required activities in those areas are elaborated in Part Eleven of this Plan.
- 22. In the oil sector, the needs and requirements should cover the requirements of maintenance, rehabilitation and upgrading of equipment and systems used in all sectors of the oil industry as well as the implementation of projects related to the development of existing and new oil fields in order to compensate for the depletion in oil available for export and prevent further deterioration in oil production in addition to achieving possible increase of production and increased reliability of production and export systems and equipment. In addition to that, it is essential to sustain the safe operations of the existing refineries with acceptable standards of efficiency, safety and environmental protection, to provide various oil products for local consumption and distribution including the transport of the fuel needed to operate the electricity generating plants in the country.
- 23. Hence, a US \$ 350 million dollars has been allocated for upstream sector, US \$ 250 million dollars for the downstream sector. This makes the total requirements of the oil sector US \$ 600 million, as stipulated in Security Council resolution 1382 (2001).
- 24. The humanitarian needs of the population of Iraq are enormous due to the cumulative deterioration of living and environmental conditions during the years of embargo. The humanitarian situation and the goods to be imported for all sectors have been reviewed in accordance with paragraphs 4 and 11 of resolution 986 and by the successive reports of the UN Secretary-General. The report clearly pointed out that the various sectors mentioned in the above paragraphs still suffer from shortage of basic needs despite the implementation of the distribution plan. There still remain needs for humanitarian supplies.
- 25. The Government of Iraq confirms its willingness to cooperate fully with the Programme and to allow it to observe throughout the country the equitable distribution of humanitarian supplies imported under this distribution plan. To this end the UN personnel working in the Programme will enjoy unrestricted movement in connection with the performance of their functions and the possibility of receiving what facilitates their functions in accordance with paragraph 44 of the MOU. The locations of the independent inspectors will continue according to the current procedure stated under paragraph 25 of the Distribution Plan of Phase VIII.

Table 1.
Allocations for sectoral activities covered by the Distribution Plan DP XII.

Grand Total****	5083.37	
Oil	600	
Sub Total	4483.37	813.78
Special Allocation***	354.59	
Health Rehabilitation	48.20	48.20
Nutrition	12.29	12.29
Mine Related Activities	19.21	19.21
Settlement Rehabilitation	151.34	151.34
Central Bank of Iraq	25	
Finance	30	
Justice	7	
Religious Affairs	20	
Culture	30	
Information	50	
Board of Youth and Sports	20	-
Labour and Social Affairs	3	
Housing and Construction	56	
Industry	161	
BWSA	191	
GEWS	150	110.34
Railway Network WATSAN	116.54	116.54
Transport and Communication/Rehabilitation of	278.50	27.50
Higher Education	89.29	11.29
Education Primary, Secondary Education	146.51	71.51
Irrigation	185	
Agriculture	216	
Agriculture	41.10	41.10
Electricity	311.20	86.20
Medicines and Medical Supplies	150	20
parts for food supply, goods transportation/trucks/standardization and quality control laboratories. Constructions	146	0
Food Handling Food supporting supplies of equipment/spare	199.60	24.60
Food**	1275	184
	(Country wide)*	Suleimaniyeh (US \$ million)
Sector/Activity	Allocations in US \$ million	Allocations for Dahuk, Erbil,

- The estimated allocations by sector constitute indicative figures to give an order of magnitude of intended use of resources. The actual amounts will depend on market prices at the time of procurement.
- ** The daily food ration will provide 2472 kcal, 60.20 g of protein, 64.90 g of fat, 439.40 mg of calcium, and 9.80 g of iron.
- The inclusion of milk and weaning food for infants fill an important nutritional need by adding 2 boxes of baby milk and 2 boxes of baby food and 1 kilo of milk for adult per capita.
- Includes an allocation of US \$ 40 million for importing raw materials for processing into edible oils, soap, and detergent.
- *** The special allocation in accordance with SCR 1330 paragraph 12 will be allotted to Housing, US \$ 102.59 million; Construction of health facilities, hospitals, specialized centres, and other health facilities, US \$ 131 million; Water and Sanitation, US \$ 116 million; and Board of Youth and Sports, US \$ 5 million.
- **** The total allocation for the humanitarian component, including oil spare parts, (Country wide), has been calculated as 72.034% of oil sales, after deducting the pipeline fees, less US \$ 25 million.

PART ONE

FOOD SECTOR

Introduction

26. The Government of Iraq established special rationing system to ensure the distribution of foodstuffs to all Iraqi citizens, Arabs and foreigners residing in Iraq. The system was launched on 1 September 1990 after the imposition of the embargo on Iraq. It is presently applied throughout Iraq. Foodstuffs imported under the MOU are distributed by the Government of Iraq throughout the country except in the three northern governorates, where the United Nations Inter-Agency Programme distributes the food ration to the population on behalf of the Government of Iraq.

The main features of the system.

- 27. The main partners of the system are:
- Ministry of Trade / Government of Iraq
- The consumers (citizens of Iraq, Arabs and foreign residents).
- Retail ration agents (private sector).
- 28. The Ministry of Trade undertakes, on a monthly basis, the distribution of foodstuffs to the retail ration agents in their designated areas, and to ensure their delivery to the household registered with the concerned agents. There are more than 45,864 ration agents distributing the food monthly in the 15 governorates and over 10,000 ration agents in the three northern governorates. Each ration card has a number of coupons that correspond to the basic food items involved in the system. The coupons are collected from the households monthly by the retail ration agents. The ration card covers one calendar year.
- 29. Every Iraqi citizen, Arab and foreign residing in Iraq is entitled by law to obtain "Rationing card" from the Registration Centres. These centres establish lists of families by name, age and number of consumers in each household and send the list to the computer centre. The computer centre sends one copy of each list to the retail ration agent and another copy of the list to food distribution centres.
- 30. The monthly individual ration under the current system is the same for each individual with regard to commodities, quantity and the related nominal fees. Households are well informed through public and private mass media, on a monthly basis, of their entitlements and on the time of distribution in various distribution centres.
- 31. The follow-up mechanism to ensure effective and proper implementation of the Rationing System is done through:
- The concerned monitoring offices of the Ministry of Trade.
- Elected People's councils.

- Citizens.
- 32. The beneficiaries of the system have the right to submit to the Ministry of Trade complaints against the retail ration agent in their designated areas, if they discover that the agent is violating the relevant regulations. Accordingly, the Ministry of Trade circulates a questionnaire among all households registered with the said agent. If the findings show that 51% of the participating households in the process condemn the agent, his agency license will be cancelled and a new retail agent will be immediately appointed.

Monitoring of Distribution

33. The observation of distribution and determining the adequacy of the materials in accordance with the distribution plan will be carried out according to paragraphs 37-38 of the MOU.

Plan for Food Distribution

34. The same mechanism of food distribution stipulated in paragraph 22 of the distribution Plan of Phase VIII shall be followed under this plan.

Arrangements for procurement and Storage

35. Arrangements for procurement, storage and the transport of food supplies under this plan shall remain as stated in paragraph 24 of the distribution plan of phase VIII.

Warehouses

- 36. Specific warehouses shall be designated to store the foodstuffs imported by the Government of Iraq under the plan. The locations of these warehouses will be within the main storage complexes of the Ministry of Trade throughout the governorates of Iraq.
- 37. In accordance with paragraph 5 of Annex I of the MOU humanitarian supplies allocated for distribution in the three northern governorates shall be delivered by the programme to warehouses located within these governorates. Food supplies will be delivered to the three governorates through transit warehouses in Kirkuk and Mosul. The transit warehouses along with the onward dispatch of food will be under the management of the Programme.

Maintenance, repairs, rehabilitation and replacement of equipment required on the basis of priorities for the handling, storage, supply and distribution of food.

- 38. The Plan is based on the actual need of the food sector according to activities related to the storage and transportation of foodstuffs as well as grain milling and delivering to the consumers in accordance with the ration system and in conformity with the volume of the imported foodstuffs. The following has been taken into consideration in preparing this requirement:
- 39. Repairing and rehabilitating the apparatuses and equipment of grain silos in a manner that ensures the speedy transportation and receiving of the imported grains and supplying them to mills as quickly as required.
- 40. Ensuring the minimum needs of the mills to keep them operating and to ensure the production of the best quality of flour, packing and delivering it to the citizens on time.
- 41. Ensuring new means of transportation to enhance the capacity available in the country for the transportation of grains, flour and foodstuffs as well as their delivery to the citizens according to the determined timings. For example, the provision of trucks and repair of railways.
- 42. Ensuring the minimum needs for cold storage and other warehouses for the foodstuffs as per their usage, the transportation of the stored goods, keeping them according to the requirements of their storage and facilitating their delivery to the citizens on time.
- 43. This Plan allocates US \$199.6 million, including US \$ 26.10 million for the three northern governorates, to ensure the procurement of the current needs for this sector as described in the annexes.
- 44. Under distribution plan XII, the programme will continue its responsibility for the transport, handling, and distribution of food commodities to end users in the three northern governorates. In this respect, WFP undertakes transport of food items from the transit warehouses in Mosul and Kirkuk to WFP managed warehouses in Erbil, Sulaymaniyah and Dahuk. Distribution of the rations to the population is arranged through a network of food agents in collaboration with local authorities. In addition, the population data is updated on regular basis.

Table 2 Iraqi population by governorate covered by the Plan.

Governorate	Population	Adults*	Children under one	
Ninevah	2486466	2420618	65848	
Tameem	869246	847543	21703	
Baghdad	6408160	6237927	170233	
Salah Al-Din	961577	934910	26667	
Diala	1254391	1222654	31737	
Anbar	1254241	1217588	36653	
Babylon	1390695	1356046	34649	
Kerbala	733121	714023	19098	
Najaf	940966	913831	27135	
Qadisiya	904455	880329	24126	
Muthana	549259	533178	16081	
Basrah	1954698	1895456	59242	
Maysan	836639	805908	30731	
Thi-Qar	1519490	1473383	46107	
Wasit	927166	903606	23560	
Dahuk	807005	788759	18246	
Erbil	1316162	1292770	23392	
Sulaymaniyah	1584683	1561612	23071	
Total	26698420	26000141	698279	

^{*} the estimated population number calculated on the basis of the actual distribution figures of DP VI taking into consideration the natural monthly growth of 0.23~%.

Table 3
Consolidated Plan and Categorized List of Foodstuffs, Soaps and Detergents
(Phase XII)

Items	Monthly ration per capita (kg)	Total monthly requirements	Total needs for six months (ton)	Required value for six months (US\$)
(1)	(2)	(ton) (3)	(4)	(5)
1. Food, wheat flour*	9.000	286000	1716000	370000000
Rice	3.000	80000	480000	135000000
Sugar	2.000	53500	321000	124000000
Tea	0.200	5500	33000	7000000
Cooking oil	1.500	40500	243000	160000000
Milk powder	3.600	2520	15120	66000000
Dried whole milk and / or Cheese	1.000	26000	156000	225000000
Fortified weaning cereal	0.800	560	3360	7000000
Pulses	1.500	41000	246000	30000000
Iodized Salt	0.150	4100	24600	3000000
Subtotal				1190000000
2. Soaps and detergents soap	0.250	6750	40500	37500000
Detergents	0.500	14100	84600	475000000
Total				85000000
Grand total		_		1275000000

Note : these figures represent indicative quantities and values subject to actual distribution and market conditions .

- wheat is to be processed and distributed to beneficiaries as wheat flour the conversion rate used is 10 kg of wheat to 8.4 kg of wheat flour.
- quantities are calculated on the basis of population figures listed in Table 2. As to ensure accuracy, distribution losses are covered by adding a percentage to the quantity of a number of food/non-food items being distributed on a monthly basis: 4% for pulses, 2% for wheat flour, rice, sugar, cooking oil, salt and detergent and 0.5% for tea.
- no additional quantities are given to the agents for milk powder, soap, weaning cereal and infant formula as these items are distributed by tins and pieces respectively.
- children under one year of age receive only infant formula, fortified weaning cereal, soap and detergent.
- Amount allocated for food is sufficient to cover the RFB due to expected lower food prices.
- An amount of approximately US \$ 40 million from the allocation to the food sector will be used to import raw materials for processing into vegetable oil, soap, and detergent within Iraq.

PART TWO

PLAN FOR PURCHASE AND DISTRIBUTION OF MEDICINE AND MEDICAL EQUIPMENT AND SUPPLIES

- 45. In drafting its health policy, the Government of Iraq has followed the guidelines published by the WHO Programme on Essential Drugs:
 - The provision of essential and cost-effective medicines to meet the needs of the whole population of Iraq.
 - To ensure equitable distribution.
 - To ensure the high quality and proper use of medicine.
- 46. Before August 1990, the rate of expenditure of the Ministry of Health was more than US\$ 500 million for the purchase of medicine and medical supplies. There were also recycled stocks which were sufficient for more than one year in addition to the known annual funds of investment for infrastructure. Therefore, the amount allocated by the previous distribution plans does not meet health service needs. The shortage of the medical supplies makes health services scientifically inadequate.
- 47. The provision of medicine without necessary medical equipment and diagnostic facilities does not permit the appropriate delivery of essential health services. Thus, there is no full benefit from medicine and medical supplies without medical apparatuses, equipment and other support systems necessary for the rehabilitation of hospitals.
- 48. As regards medicine and medical supplies, the situation is exceptionally serious. Most of the patients still receive partial treatment. The local production of drugs is still substantially low. In 1989, the need for medicine was met with the Ministry of Health spending more than US\$ 500 million to purchase imported medicine and medical appliances. Additionally, there were reserve stocks which permitted the continuous flow of medicine.
- 49. The plan is formulated to meet the needs for medicine with top priority for medicines for chronic diseases. Other urgent needs include other medicines, medical supplies, medical equipment, the local production of drugs and syringes and spare parts as well as other equipment, spare parts and materials for the rehabilitation of service equipment in hospitals and health centres such as air conditioning, elevators etc. US \$ 150 million is the total allocation to the health sector.
- 50. However, as reported by UN Agencies and other observers, the situation of hospitals and health centres is still of much concern as they are in need for big investments which could not be made available. The report of UN Secretary-General of 19 November 2001 (S/2001/1089) clearly pointed out the need of rehabilitation of equipment in hospitals and health centres which require large funds. In addition the harsh economic and social circumstances and the deterioration of the living conditions resulted in an increased mortality and

- morbidity including malnutrition. US \$ 10 million is allocated for supplemental nutrition support, (high protein biscuits, therapeutic milk, etc), for pregnant and lactating mothers.
- 51. In the three northern governorates of Iraq, a separate allocation of US \$ 20 million has been earmarked to cover the medical and nutritional needs of the population for phase XII. In previous phases the focus was on growth monitoring with the aim of early detecting growth faltering of children under five years of age in order to curb protein-energy malnutrition. While continuing these activities, the Programme will also target school children and will further strengthen its effort to identify and control micro-nutrient deficiencies. Emphasis will be given to enhance women's skills in improving feeding practices and in providing appropriate health and nutritional care to their children. The focus on gender issues is also reflected in the Programme's effort to diminish maternal mortality rates.
- 52. Under distribution plan XII, the ongoing Supplementary Feeding Programme in the three northern governorates will assist an approximate caseload of 155,000 beneficiaries including malnourished children, pregnant and lactating mothers, and persons in need at social institutions and hospitals. Food security activities had been under revision by the independent review mission, and projects reformulated in accordance their findings, and recommendations
- 53. The Plan aims at the provision of high quality and low-cost medicine which meet the needs of the whole population of Iraq. Up to date medical equipment, such as Computerized Tomography (C.T.) Scans and Magnetic Resonance Imaging (MRI), medical and surgical appliances, diagnostic equipment and vaccines are required. Among other priorities that require an urgent attention within the framework of the Plan, are the provision of pesticides, insecticides, for domestic use the provision of field vehicles to ensure communication within the health network and vehicles to transport medicine and medical equipment. It should be stressed that the public health sector cannot be improved by the provision of medicine and medical appliances only. The infrastructure of hospitals, medical centres and warehouses is in need of rehabilitation through the provision of spare parts and replacement equipment in addition to physical repairs. Furthermore, the provisions of 400 ambulances for the health services are basic and urgently needed to improve public health services.
- 54. The health situation in the three northern governorates has begun to improve with respect to health services As a result of programme implementation, to date no outbreak of cholera took place in the three governorate despite the drought. In depth discussions and consultations are underway to plan for the re-orientation of the function of the health centres so as to provide comprehensive services to the public; including curative, preventive, promotional, and re-rehabilitative health care. Most old and obsolete medical equipment in hospitals has been replaced. This has contributed to better diagnostic and curative medical services for the sick. There are still some shortages of certain drugs due to the limited quantities received from Kimadia.

- 55. Several hospitals and related health facilities have been renovated and refurnished to meet the present needs of the health services. A large number of items for water quality control laboratories have been received and installed. Three central water quality control laboratories and five satellite laboratories are functioning well in the three northern governorates. All the technical staff in these laboratories have received training on the bacteriological and chemical analyses needed for the control of drinking water.
- 56. There is a need to improve the planning of the health services by local health authorities, and to enhance capabilities at primary, secondary, and tertiary health service levels.
- 57. For phase XII, US \$ 20 million has been allocated for the provision of medicines and medical supplies and US \$ 48.20 million for projects under the component of "health rehabilitation".
- 58. The completion of developing profiles for all the health facilities in the northern governorates in June 2001 has provided a tool for identifying planning priorities within the health sector. The resulting "Health Information Profile" will equip senior health officials with the information necessary to reach timely and appropriate decisions.
- 59. Under previous phases, the programme in the three northern governorates gave due attention to preventive health care services to achieve accelerated progress in reducing maternal and child mortality in the region. The strategy of the programme was to prevent illnesses through proper nutrition including breastfeeding, immunization, encouraging families to apply proper health and hygiene practices, and gender disparity reduction. In phase XII, funds will be used to enhance the programme of early detection of childhood disabilities, and to further strengthen the ongoing activities initiated in previous phases to support immunization and primary healthy care activities. Increased focus will be on addressing vulnerable groups such as unaccompanied children and children in need of protection. Emphasis will be given to improving the quality of maternal health services and of training, expanding school health and sanitation activities, and continuing work in an integrated fashion on all relevant health programmes.
- 60. Child protection projects under phase XII will continue to improve the conceptual understanding of child rights and child protection through provision of technical assistance at various levels of administration and programme implementation. Until the local capacity has been adequately strengthened, the programme will continue working with local institutions while redirecting activities towards a child rights perspective. It is anticipated that these activities will result in expanded availability of services outside urban areas, and in a plan of action for child protection. The continued provision of supplies and rehabilitation of infrastructure will complement the above strategies.

Sub-Sectors

- 61. Given the nature of the health care sector, priorities for individual items cannot be set without discriminating between patients. Purchase orders for essential drugs, medical supplies, equipment and support items will however be issued in accordance with the general priorities emerging in the health sector and in consideration of projected stock shortages. Special priority items or changes in priority or complementarily will be communicated through the Permanent Representative.
- Medicine and Medical supplies. The objective pursued under the Plan is to
 make available needed medicine and medical supplies to health care providers
 throughout Iraq. The Ministry of Health will give focus to those items in the
 annexes, which are of general use in order to ensure a continuous flow of
 essential items to health facilities.
- Rehabilitation of Health Facilities. It is estimated that approximately 50% of the medical equipment is obsolete and/or un-repairable there by requiring replacement. However, given the limitations of funds only critical equipment for medical care and diagnostic purposes will be procured. The import of spare parts is to effect repair of equipment that can still be used. The overall objective of these measures is to improve the quality of care and hence add to the benefit expected from increased availability of medicine and medical supplies. Additionally health infrastructure rehabilitation is to improve general working conditions and provide better and acceptable hospital conditions for patients. This would be achieved through the import of spare parts and some equipment for hospital engineering such as air-conditioning, heating and elevators. In addition fork lifts, trucks and spare parts will be imported to facilitate distributions of supplies. Items listed for logistical, information processing and communications support is considered critical for an efficient distribution and inventory management system.
- Quality Control Laboratories. Given the importance of this sub-sector allocations will be made to provide medical equipment to facilitate timely quality control testing as well as to allow for effecting all tests required by Iraqi regulations.
- 62. In accordance with the MOU and the distribution plan, in the three northern governorates, the Programme will be responsible for the distribution of medical supplies and medical equipment as well as for infrastructure rehabilitation. The Programme shall ensure that the needs determined by health sector are compatible with the basic needs of these governorates.

Plan Components

- 63. The components of the plan composed of the estimation of needs, the distribution, procedures for regulation and criteria for importation and storage will remain as contained in the first distribution plan.
- 64. The Government of Iraq shall provide the Programme with detailed information about the delivery of appliances and equipment to their locations in order to facilitate and ensure monitoring of their use.

65. In accordance with the MOU and the distribution plan, in the three northern governorates, the Programme will be responsible for the distribution of medical supplies and medical equipment as well as for infrastructure rehabilitation. The Programme shall ensure that the needs determined by health sector are compatible with the basic needs of these governorates.

Table 4
Criteria for distribution of Ambulances *

Serial no.	Governorates	Number of ambulances
1.	Nineveh	28
2.	Tameem	12
3.	Baghdad	120
4.	Salah Al-Din	16
5.	Diala	16
6.	Anbar	20
7.	Babylon	16
8.	Kerbala	12
9.	Najaf	12
10.	Qadissiyiah	12
11.	Muthana	12
12.	Basrah	32
13.	Misan	16
14.	Thi-Qar	16
15.	Wassit	12
16.	Dahuk	12
17.	Erbil	16
18.	Sulaymaniyah	20
Total		400

Distribution: two ambulance / 100.000 population.

PART THREE

PLAN OF EQUIPMENT PURCHASE FOR WATER AND SANITATION SECTOR

- 66. Deterioration in this sector has manifested itself seriously in the decrease in quantities of potable water and in inadequate sanitation for the population, both of which have contributed to sharp increase in the incidence of waterborne diseases in the whole country. With the drastic deterioration in this sector during the past nine years, a survey recently undertaken by UNICEF revealed that the water coverage is on average of 46 % in all rural areas. On the other hand, the per capita share of water has gone down to 218 litres / day in Baghdad, 138 litres/day in other urban areas and 91 litres / day in served rural areas. This deterioration is related to the highly deficient functioning of most of the existing water treatment plants, lack of spare parts and equipment, the poor status of the water distribution network, and electrical power cuts of up to 10 hours per day. Water quality results, reported by MOH and WHO, have shown a high contamination percentage of water samples. On the other hand and while the turbidity of water reaching the population should not exceed 1 Nephelometric Turbidity Unit (NTU) as set by Iraqi standards, more than 70 % of the water currently served is of a turbidity exceeding 10 NTU.
- 67. Despite the identification of the deteriorated situation of the sector of potable water and sanitation by the reports of UN agencies and the report of the UN Secretary-General of 18 May 1999 (S/1999/573), which clarified the actual situation of the projects and the minimum requires needs for maintaining their operation, deterioration continues, due to the limited sums allocated for this sector in the previous distribution plants, the delay in the arrival of supplies, mainly due to complicated process for S.C. approval as well as the nature of these supplies which require no less than six months for their manufacture and shipment.
- 68. **Sector Objective and Strategies.** The overall objectives of the Water and Sanitation Sector in Iraq are:
 - To provide sufficient quantity of potable water to the population.
 - To dispose, hygienically, of all kinds of waste (solid and liquid).
- 69. To meet the above objectives three subsequent planning stages are to be followed:
 - **Stage I.** Rehabilitate the existing system to enhance efficiency and improved performance as well as quality. The estimated cost of this stage is US \$ 700 million.
 - **Stage II.** Fill in the gap to reach universal accessibility of service where by the under-served and the unserved will be covered.
 - **Stage III.** Increase the level of service to meet the normal growth of the population.

- 70. The purchase strategy followed in preparing the three subsequent distribution plans of SCR.
- 71. The production of potable water in 14 governorates is 1200 million cubic metre / year. The design capacity of Baghdad is 850 million cubic metre/year. As the requirements determined in the previous distribution plans, have not arrived in Iraq yet, the current estimated capacity of these facilities is 30 % less than their design capacity. The water system in centre / south Iraq is composed of 218 water treatment plant, 1191 compact water unit, 51 boosting station and thousands of kilometres of water supply pipes.
- 72 In sanitation, the situation is even worse. None of the 13 sewage treatment plants in the country is functioning properly, and raw sewage is disposed directly into rivers and causing contamination. The sewage collection, and rainfall collection systems which are composed of 250 vertical sewage pumping stations and more than 1.000 sewage submersible pumping station are all malfunctioning and in desperate shape, because of the deteriorating status of the network, and the lack of pumps, spares and other supplies and mainly due to disability to construct new treatment plants and net work to face the population growth. Other areas where septic tanks and cesspools are utilized for sewage disposal are also facing enormous problems due to the high water table and the breakdown of the fleet of cesspool emptiers. Flooded septic tanks are flooding residential areas and causing contamination. The current situation necessitates much attention to this sector, due to its negative effects on public health, environment and citizens, particularly children and women. This requires the allocation of US \$ 457.54 million in the plan to meet the urgent humanitarian needs in this sector according to the details contained in the annexes, US \$ 191 million to Baghdad to improve the delivery of drinking water to the beneficiaries of Rosafa water treatment plant. The funds would provide items such as water pumps, tanks, ductile pipes, pressure filters, electrical generators and other materials. US \$ 150 million have been allocated to the districts surrounding Baghdad and other 14 governorates and US \$ 116.54 million will be allocated to the three northern governorates.
- 73. The US \$ 150 million that will be allocated to the Ministry of Interior under which the General Establishment of Water and Sanitation (GEWS) functions will be used to address
 - a. The operation and maintenance requirements for water and sewerage projects, mainly for the purchase of Alum, Chlorine, horizontal pumps, Chlorine equipment, alum injection pumps, Chlorine injection pumps, wells pumps, horizontal pumps for compact units, submersible pumps, electrical cables, chlorine gas cylinder locks and safety valve, air compressors, electrical and mechanical equipment and tools, welding machines, generators, Diesel pumps, complete system of communications and control of water projects, overload, sewerage cleaning equipment, linen reinforced hoses, engine wires, engines, leakage inspection equipment, sub-base digging equipment, vertical pumps, electrical circuit breakers, ball bearings, spiral pumps, laboratory equipment, contactors.

- b. requirements for the execution of Water and Sewerage Networks by purchasing plastic pipes, ductile pipes and GRP pipes
- c. requirements for Municipality Services such as garbage collection vehicles, garbage container lifts, garbage containers, asphalt spreader, rubber roller, steal roller, steal roller-tier, asphalt peeler, streets weeper vehicles, tractor with wagon, tar transporting vehicles, tar spreading vehicles, streets lining equipment, stone breaker, spare parts for street lining equipment, asphalt factories, grader, mobile workshops, small rollers, bulldozers, traffic control equipment, traffic safety materials, spare parts for stone breaker, shuffles, bulldozers, tractors and spreaders.
- d. civil defense requirements expressed in mine detection vehicles, mine detection equipment, light rescue vehicles, heavy rescue vehicles, multipurpose fire fighting, supporting fire fighting, river fire fighting boat, fire fighting suit, fire fighting hard hat, torch light, fire fighting foam, chemical dry powder, fire fighting communication station, breathing equipment, lighting vehicles, fire fighting vehicles, spare parts for shelters.
- e. other requirements for the Ministry such as wireless control system, vehicles wireless sets, hand sets, office wireless set, electronic switchboard, rechargeable torch, driving cabinet, GIS geographical system, archiving systems, laser printers, photography equipment, photocopy equipment, concrete factory, cement silo vehicles mobile site laboratory, communications system, elevators, air conditioning equipment, computers.
- f. service vehicles and production equipment such as saloon cars, Land cruisers, double cabinet pick-ups, cars for the transportation of employees, rescue cars, motorcycles, tankers, sewerage emptying cars, 2 ton pick ups, 5 ton pick ups 10 ton pick ups, 15 ton pick ups, low loader, reversible lorry, diggers, fuel transporting cars, rotary shuffle, dumper, concrete mixer vehicle, concrete pumping pump, specialized vehicles for blockage opening, fork lifts, cranes, batteries, tiers, spare parts for different cars, laboratory vehicles sewerage suckers, 35 ton trailer, mobile workshop, steam launches, cars for the transportation of employees, sidewalk casting equipment, balance and weighing equipment, lifts with four electrical supporters, manual car jack.
- 74. The spare parts and equipment required for this sector are further described in the annexes. The proposed DP has some changes in the purchase policy. Priority continues to be given to the purchase of water purification chemicals and some of the specific urgent required supplies in specific water treatment plants not only for Baghdad Municipality but also to the General Establishment for Water and Sewerage. In order to address the rehabilitation needs of large water and sewerage treatment plants in a comprehensive manner, turnkey projects of the type presently implemented in the electricity sector will be introduced.
- 75. There will be a focus on improving water services to under-served or unserved rural population by the purchase of 400 compact water treatment plants. More attention is being given to sanitation by the purchase of sewage pumps,

cesspool emptiers, sewer jetting units, sewers cleaning equipment and garbage collectors. As a second priority, focus will be given to the purchase of supplies to water treatment plants (pumps, circuit breakers, starters, and motors) and also supplies for incomplete water treatment plant meant to serve unsaved population and whose civil works are 60-90% completed. Also, focus will be given to the purchase of some ductile and UPVC pipes for the water supply network. There will also be focus on water quality control through the purchase of required supplies. The water tankers, which are included in DP-VI, should be used to face needs incurred by the current drought situation. On a third priority basis, water tankers to provide services to unserved areas and some support vehicles (trailers and loaders) will be purchased.

- 76. In urban areas the apparent ready access to water and sanitation systems tends to conceal the fact that the quality of potable water is highly variable and very dependent on a reliable and continuous electricity supply. The latter ensures that pressures remain sufficient to avoid drawing polluted water back into the main supply pipes. In addition many of the pumps are well beyond their useful working life, with the result that the supply of water o households is by no means guaranteed even where systems are nominally in place. For rural areas, recent surveys indicate that water supply coverage is under 50%, rather less than had originally been thought, and the population in these areas who had access to sanitary latrines is much less at only 16%.
- 77. A particular problem in this sector is the widespread deterioration of the vehicle sanitation fleet, which is used for regular removal of both liquid and solid wastes. The much-reduced capacity of this fleet is compromising both the health and environmental situations, which will become even worse over the coming summer unless corrective action is taken before then. Computers that are ordered as part of DP-VI should be used to computerize the management of supplies in the major warehouses in order to alleviate some of the present bottlenecks in the process of distribution of supplies in the Water and Sanitation sector.
- 78. In the three northern governorates, the urban water and sanitation projects will focus on four major areas of intervention: provision of adequate quantities of water treatment chemicals and related equipment to keep contamination below the desired level; replacement/repair and extension of distribution networks to tackle water leakage and ensure adequate pressure for a more efficient water distribution; construction of storm water drains to prevent water logging; and proper collection and disposal of solid waste. Rural water and sanitation projects will continue toward the objective of increasing access to safe water and sanitary facilities through development of new projects and rehabilitation/repair of the old ones so as to ultimately achieve the goal of universal access to safe water and sanitary means of excreta disposal. This includes provision of safe water to people during emergencies such as the drought.
- 79. Hygiene education projects aim to support social mobilization and hygiene education for proper usage of water and sanitation facilities and to bring about a behavioral change in hygiene practices with the ultimate goal of bringing

down water and sanitation related diseases. Under Phase XI, the development of IEC materials continued so that they are suited to the local socio-cultural ethos. Training, using various communication channels, with a focus on schools and related to social mobilization and promotion of improved sanitary practices will generate greater awareness of hygiene practices. Total budget allocation for water and environmental sanitation is US \$ 116.54 million.

80. In accordance with paragraph 40 of the MOU, the Government of Iraq shall provide the Programme with detailed information about the delivery of supplies and equipment to their locations in order to facilitate the monitoring of their use and to make sure of this. The Programme will conduct the tasks provided for in paragraph 8 of annex-1 of the MOU.

PART FOUR

PLAN OF SUPPLIES AND EQUIPMENT FOR ELECTRICITY SECTOR

- 81. The deficit in electric power as result of damage inflicted upon this vital sector and non-availability of spare parts and equipment for maintenance, is a serious problem throughout the country. Although, the total allocation under previous phases increased substantially, the network continues to deteriorate for two main reasons: the scale of inputs received is significantly low in comparison with actual needs, and the large number of contracts on hold. The situation was compounded by a severe regional drought in the last three consecutive years which has reduced the power generation from hydro units by more than 300 MW. A country wide load survey in August 1999 showed that, while the load demand was 6200 MW, the deficit in power based on the load demand was 2300 MW. In year 2000 and 2001, during August, the load demand recorded was 6120 MW and the deficit in power was 2402 MW. From the figures it is evident that the power generation deficit has been steadily increasing, as the power generation is not commensurate with the load demand.
- 82. To address these urgent needs, a sum of US \$ 311.20 million is allocated in this plan. As there is a severe shortage of power, the Plan concentrates on increasing generation by installing new gas turbine generation units and carrying out rehabilitation and repairs to some of the larger thermal, gas turbine and hydro-electric power generation stations throughout country, also starting with installation of new thermal power stations in some locations. The Plan also emphasizes the need to rehabilitate on transmission and distribution networks in different parts of the country and reconnection of the northern governorates with the National grid.
- 83. The installation of new gas turbine units alongside the existing, Baiji, Shamal, Mussayeb, Nassiriya, Najaf, and new places in New Rumaila, Baghdad East and other gas turbine power stations is under construction in some of them. It is decided to get advantage of utilizing the gas turbine generating units as combined cycle units. The estimated cost of new gas turbine units is US \$ 200 million and these units are expected to add around 250 MW. A sum of US \$ 50 million has been allocated for additional rehabilitation of the gas turbine generating units at Khor Al-Zubair, Najef, and maintenance of other gas turbine power stations. These gas turbine units after rehabilitation are expected to add about 50 MW. The thermal generating units in Baiji, Mussaib, Daura, Baghdad south and other power stations are planned for rehabilitation the estimated cost is around US \$ 100 million. After completion of rehabilitation, the units are expected to add 160 MW. An amount of US \$ 35 million is allocated for maintenance and repair of hydro-generation units in Qadissia and Saddam power plants and the new hydro power plants in Makhool and Sinhareeb. This amount is meant for emergency repairs to ensure that the system remains operational and sustains the present level of generation, but no increase in generation is anticipated in the plan. Although the transmission and distribution networks are in urgent need of rehabilitation. Installation of new substations, new transmission lines, extension of existing

substation for curing bottleneck in the existing network and consumers is needed. A sum of US \$ 150 million is allocated to this purpose. Within the limited available fund , a sum of US \$ 50 million is allocated for the distribution network and US \$ 30 million for the transmission network. To start the construction of power plants in Yousifiya, Al-Shemal, Salah El-Deen, Al-Anbar, and a new power station in Wasit, a sum of US \$ 300 million is allocated.

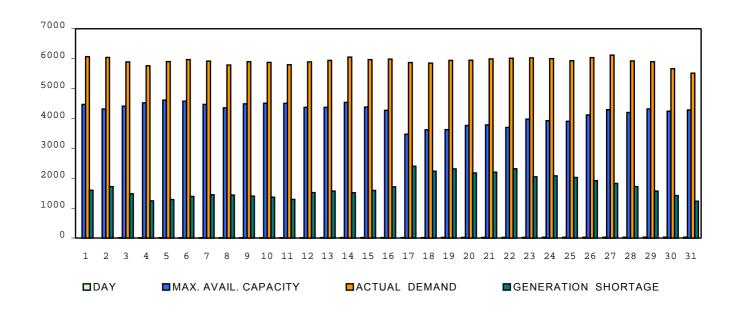
- 84. The above mentioned figures could vary according to the urgency of the system requirements prevailing at the time of ordering. The Commission of Electricity is fully aware that the total sum of these priority projects exceeds the allocation expected for this sector. However, it should be stressed that the above figures are indicative for planning purposes and are a reflection of the scale of resources required to implement the above mentioned projects.
- 85. The Plan also emphasizes the need to rehabilitate on transmission and distribution networks in different parts of the country and reconnection of the northern governorates with the National grid.
- 86. The total phase XII allocation to the electricity sector in the three northern governorates is US \$ 86.20 million.
- 87. The Iraqi governorates of Erbil and Sulaymaniyah will be reconnected to the national electricity grid in accordance with the proposal outlined on 20 November 2001 to the Security Council Committee established by resolution 661 (1990) and approved in its letter dated 7 December, 2001. This arrangement will provide an additional 300 Megawatts of electricity from the national grid to the three governorates. As authorized by the Committee, reimbursement will take place from the ESC (13 per cent) account to the ESB (59 per cent) account for works associated with reconnection to be carried out by the Government of Iraq. Funds have also been set aside under the ESC (13 per cent) account to cover the costs of interim arrangements, including fuel and operating expenses, in order to provide additional electricity pending reconnection to the national grid. Accordingly, the Plan allows for \$30 million to supplement costs for interim generation and \$10.5 million for the current fuel requirements of the 29 MW plants.
- 88. In 1999, in an effort to soften the impact of the drought on the population a total of 1150 small diesel generator have been purchased and installed across the three northern governorates. When operated, these generators supply approximately 80 MW of electricity, supplying, inter alia all major hospitals and health centers. Because of this, it is essential that these generators, that also benefit a population of over 1 million, continue to be maintained and operated in a manner that maximize their life span. The Plan makes provision for \$6 million to undertake the O&M works necessary to ensure sustainability of these generators until mid 2003.
- 89. The Plan notes the need for further work on the distribution network in the three northern governorates and makes provision for an additional \$24 million

to cover stages 4 (Erbil and Dahuk) and 5 (Sulaymaniyah) rehabilitation works in the governorates. Rehabilitation of the distribution network is labour intensive and requires the transportation of manpower and materials to all the areas accessed by the network. This can only be achieved with a fleet of vehicles dedicated for rehabilitation, and operation and maintenance works, for which the Plan allocates \$1.2 million. The Plan also allows \$1.5 million for the installation of meters and the launching of a tariff system. Once established the system and related facilities will not only induce the reduction of consumer demand but will also enable monitoring and management of the electricity supply. The system will be particularly beneficial once reconnection is established and consumers in the north required to comply with the national tariff structure.

- 90. Another area of focus under phase XII is that of system communications. Once established the communications system will allow effective control between the hydro power stations and the substations. The Plan foresees \$1 million for additional work on this system, which is expected to enable the efficient, effective management of the electricity network, as well as to enhance the general workplace safety.
- 91. \$3.5 million is allocated in the Plan to continue ongoing operations and maintenance work of existing substations in the three northern governorates. Funds will be utilized to procure spare parts and to undertake repairs and rehabilitation of plant and equipment, such as batteries, circuit breakers and switchgear. Similarly, to complete ongoing works and to take on new works as necessitated by the expansion of the Electricity Network Rehabilitation Programme (ENRP) in the north, and additional \$3.5 million will be allocated in phase XII for the refurbishment of the common roof buildings and to cover costs for common services.
- 92. The Plan also makes provision with \$2 million for the possible replacement of the damaged runner of Unit 2 in Derbendikan. Finally, \$3 million is set aside for the construction of additional transmission lines not covered under the current EPC contract.
- 93. The ENRP will continue its efforts to provide for the full emergency electricity needs of the three northern governorates.

ANNEX 1
Phase XII (Electricity Sector)

AVAILABLE CAPACITY , DEMAND , GENERATION SHORTAGE AND TOTAL INSTALLED CAPACITY OF THE SYSTEM DURING AUGUST 2000



INSTALLED CAPACITY = 8090 MW

ANNEX 2
AVAILABLE CAPACITY, DEMAND, GENERATION SHORTAGE AND
TOTAL INSTALLED CAPACITY OF THE SYSTEM DURING AUGUST 2000

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PART FIVE

PLAN OF PROCUREMENT AND DISTRIBUTION FOR THE AGRICULTURAL SECTOR

Introduction

- 94. The agricultural sector continues to play a leading role in providing a substantial portion of the population's nutrition needs. In spite of the various constraints resulting from the sanctions, which in turn brought a total halt to systematic development of the sector, the agriculture sector is deemed to continue to provide the population with the supplementary food requirements.
- 95. The sector's cumulative and growing requirements are beyond the meagre resources available through the Oil for Food Programme. Consequently, the plan strategies are still oriented towards halting, as much as the possible, the sector's deterioration and increasing the sector's contribution to food availability, giving due consideration to the additional constraints caused by the severe drought.
- 96. Agricultural production involves many complex and interrelated biological processes. This dictates that all interventions have to be addressed in a well integrated manner and approved as a package in order to achieve the targeted goals. Provision of the needed basic inputs will strengthen the sector and improve the availability of agricultural products at current or even lower prices. The overall objective must be to address the problem of the supply of these urgent needs in order to stimulate domestic production of food items and thus offer a local available supplement for the food basket.

Activities Envisaged By Sub-sector

Enhanced Domestic Food Production.

Production of field crops, vegetables and fruits

- 97. Agricultural production in Iraq is highly mechanized even at the small farmer level and almost one half of the area under crop production lies within the irrigated sector. The overall crop production requirements include proper soil preparation, good quality seeds, and harvesting with minimum losses. Any attempt aiming at maintaining or increasing the level of the crop productivity, therefore should address all those factors.
- 98. Failure to adequately respond to each of these inter-related activities will seriously affect the achievement of the eventual crop production level. It is therefore essential, that appropriate inputs should be available for each activity in a timely manner. Indeed, timeliness is vital to the success of each activity. The time frame often being restricted to a mere day or two, if the resulting yields are not to be lowered.

- 99. Prior to the imposition of sanctions, the total number of agricultural tractors was accounted to more than 40,000, working on the 4 million ha of arable land. This represents very approximately one tractor for 100 ha under cultivation. However, currently a large number of agricultural machinery have surpassed their useful life expectancy of 15 years. Agricultural production is therefore seriously affected by this situation. It is of paramount importance to continue addressing the issue of gradual replacement of the entire tractors, combine harvesters, and other agricultural equipment and implements.
- 100. In partial response to the urgent need for remedial measures in this regard, the plan includes the proposed acquisition of 3,000 tractors of different types. It is estimated that this quantity will enable adequate and timely soil preparation, seeding, weed control and fertilizer application for an area comprising approximately 450,000 ha which represents 11% of the total arable area, (see Annex AGRI-1A). In order to overhaul some of the tractors already available in the country, the plan also includes the provision of spare parts for the different types of existing tractors. (see Annex) The particular problem of soil preparation will be addressed through the proposed importation of 1,000 mounted moldboard ploughs together with spare parts amounting to 5% of the ploughs' value, as well as 1000 rotary tillers, (see Annex AGRI 7-Appendix1).
- 101. Timely weed and pest control measures could only be undertaken if adequate numbers of agricultural sprayers are available. The plan therefore intends to provide 6,000 mounted and wheel-barrow sprayers together with 5,000 knapsack sprayers, (see Annex AGRI-1A).
- 102. Due to the acute shortage of operational harvesting equipment, post harvest losses are continually increasing. In many cases, the farmer has been forced to revert to manual harvesting methods which invoke high losses. In other cases, the poor conditions of the mechanical harvesters also increases harvest losses. It has been estimated that overall post harvest losses may at present, have risen to 20 or 25 % of the potential crop yield. The plan proposes to import 200 combine harvesters together with 250 pieces, of walking reapers, 100 corn huskers and 250 threshing machines, plus assorted spare parts, in attempt to improve mechanical harvesting, (see Annexes AGRI-1A and Appendix 2).
- Table 5 shows the allocation of the planned tractors to the 15 Governorates. This allocation is based on the area under cultivation and the number of available and operational tractors in each governorate. A similar procedure will be followed at District level. At farm level, all the farmers are eligible to apply to be an end user of a tractor.
- 104. Rehabilitation of seed factories is also addressed in the DP. The plan includes spare parts and essential equipment needed for seed processing, (see Annex AGRI-1D)
- 105. The plan also considered an expansion in the storage capacity of 11 maize threshing and drying plants in the central and southern parts of the country. In this regard the plan will import 20 silos for the storage of the maize produced

during the rainy seasons, which coincide with the maize harvesting seasons, (see Annex AGRI-1).

106. The plan included provision of 5 maize processing plants for threshing and drying maize. This is in line with the Government policy towards the encouragement of animal production in the country through supply of required animal feed. The Government took several measures, to help the expansion of maize production. Currently, the cultivated area under maize reached 150,000 ha. The existing maize processing capacity cannot handle the locally produced maize. The requested plants will add more than 1000 Mt of processing capacity. This will enable the absorption of the local maize products. The plants will be installed in Babylon, Baghdad, Wasit, El-Tameem and Salah El-Din. The governorates are selected on the basis of size of land under maize production, (Annex).

Table 5
Distribution Plan For Tractors – Harvesters – Irrigation Pumps – Sprayers

Governora	Tracto	Combin	Irrigation	Irrigation	Irrigation	(100) lt	(400-	(14-20) lt
te	rs	e	Pumps	Pumps	pumps	Sprayer	600) lt	Knap-
		Harveste	(with	(without	(for deep	S	Sprayer	Sack
		rs	engine)	engine)	well)		S	Sprayers
Ninevah	450	37	1440	400	500	680	34	180
Tameem	362	23	1440	400	500	550	56	280
Salahdeen	274	16	1800	500	1000	500	118	550
Dyala	240	16	1800	500	300	500	116	550
Baghdad	140	11	990	275	200	500	74	360
Anbar	62	3	720	200	600	150	54	270
Babil	162	12	900	250	200	250	84	420
Kerbala	26	2	540	150	200	100	40	200
Najaf	218	10	900	250	300	250	74	360
Qadisya	252	16	1620	450	300	200	68	330
Muthanna	80	3	720	200	200	100	14	100
Thi-Qar	146	10	1080	300	300	120	36	200
Wasit	388	26	1800	500	200	500	136	600
Maysan	176	13	1350	375	200	250	24	150
Basrah	24	2	900	250	1000	350	72	450
Total	3000	200	18000	5000	6000	5000	1000	5000

The distribution allocations are based on cropping pattern and cultivated area. Final distribution will be decided in proportion to the above table but determined by physical arrival of the consignments.

- 107. Agricultural authorities will select beneficiaries on the basis of the following criteria: the farm size (area), the farmer's production index and the current state of old tractors on the farm. As the amount of mechanization equipment will fall short of present overall needs, priority will be given to those end users who have not benefited from similar distributions, either prior to or after the imposition of sanctions.
- 108. With regard to the distribution of tractor operated agricultural machinery, all Governorates will be entitled to submit their requirements according to farmer demand. Any justifiable request will then be duly considered within the limitations of total availability. Table 5 shows the proposed distribution of combine harvesters, which will follow similar criteria and be based upon cropped areas, the farmer production index and the current state of the farmer's harvesting equipment.
- 109. Lack of good quality seed continues to be one of the major constraints to increase crop production. The imposition of the sanctions resulted in reducing the country's capacity to produce quality certified seeds as well as the capacity to maintain good quality seed processing activities. The lack of good quality seed remains to be among the serious constraints to crop production. The seed processing capacity in the country is limited. The plan, therefore, includes five seed production units which will be installed at the state seed production company within the MoA. The planned seed cleaning and processing is anticipated to provide additional 80,000 Mt of seed. This will considerably contribute to the availability of good quality seed. The seed which will be distributed in the production areas in all the 15 governorates, (see Annex AGRI-1D).
- 110. Iraq faces a serious shortage of hybrid and certified seeds, especially sunflower and vegetable seeds, together with seeds and seedlings needed for the orchards. Prior to the imposition of sanctions, the country regularly imported both seeds and seedlings to satisfy the requirements. The embargo has interrupted supplies of these essential inputs and seriously lowered production as a consequence. In order to redress the situation and to enhance the domestic production of fruit, vegetables and sunflower (for vegetable oil), the plan includes the proposed importation of hybrids, certified seeds and seedlings, (see Annex AGRI-2 sections A &B).
- 111. These inputs will be made available to all the farmers already involved in the production of such crops. The distribution plan to each governorate will be determined on the basis of the total area under each of these crops, with due consideration to both ecological and climatic factors. The proposed quantities represent the following percentages of the annual requirements: 25% of vegetable seeds; 90% of sunflower seeds; 100% of rape seeds; sunflower and Soya beans; and 80% of orchard seeds and seedlings.

- 112. The Government put great emphasis on the vegetable and fruit production in an attempt to ameliorate the nutritional value of the diet for the population. However, the availability of cold storage facilities is limited. This causes in a great loss and damage during the peak of production. In addition to wasting valuable nutrients supplementing the food basket, it also affects the profitability of vegetable production at the level of the farmers. Thus, the plan considers provision of 300 cold storage units with capacity of 100 to 1500 mt to be distributed to the public and private sectors in the 15 governorates.
- 113. The plan is proposing the establishment of 5 ha nursery for banana production. The nursery beside the production and distribution of the banana seedlings will act as an extension centre to promote the small-scale banana production in the centre and south. For this, needed equipment and necessary input are included, (see Annex AGRI-1D).
- 114. Iraq previously was able to satisfy the greater part of all national fertilizer requirements through national production and manufacture. However, the factories suffered severe damages after 1991 and this has drastically reduced the possibility of self-sufficiency in the production of this input. Shortage of fertilizer has led to large areas of crops being grown without application of any fertilizer. In other cases, application rates have been considerably reduced which significantly lowered the crop yields. The situation has been further aggravated by the practice of mono-culture of cereals, as described above. This seriously reduces soil fertilizers which can only be redressed by increasing the application rates of fertilizers. The situation was worsened by the lack of sufficient locally produced fertilizer and imported fertilizer which was limited due to financial constraints.
- 115. The country's total annual fertilizer requirement is 1.5 million Mt of compound phosphate fertilizer and 1 million Mt of nitrogenous fertilizer. Prior to the Gulf War, the country's total production capacity was 1.2 million Mt of phosphate fertilizer and more than 1 million mt of urea. The production in relation to limited area under cultivation at that time allowed surplus which was exported. However, during the sanctions the three state fertilizer plants suffered marked deterioration in their productivity and reached a stage of near total collapse. Last year, local production dropped to 130,000 Mt of phosphate fertilizer and 400,000 Mt of urea. The current production covers only 10% and 40% of the country's need of compound and nitrogenous fertilizers, respectively. The plan aims to address the current big shortage of fertilizer through provision of needed replacement equipment and spare parts for rehabilitation of the three existing fertilizer plants in the country as indicated in Annex AGRI-2F.
- 116. The requested input is anticipated to prevent further deterioration of the current capacity as well as to increase the total fertilizer production capacity to 600,000 Mt of urea and 220,000 Mt of compound fertilizer. The final products will be distributed to the farming community in the 15 governorates at cost price. To bridge the shortage and in an attempt to maintain the current level of production, it is proposed to import 40,000 Mt of di-ammonium phosphate (DAP) which in fact corresponds to 98,000 Mt of N.P.K (18.18.0). Such a

procedure will reduce transportation costs and also help to overcome some of the logistical constraints, which could be encountered during the distribution process. In addition to the DAP, 5228 Mt of potassium, magnesium, zinc, ferrous sulfate, and fouler fertilizer are to be imported plus 10,000 Mt of TSB fertilizer, (see Annex AGRI-2 section C).

- 117. This total quantity of fertilizer has been proposed on the basis of satisfying the minimum plant nutrient requirements for approximately 320,000 ha under both cereal and vegetable crop production.
- 118. The allocations accorded to each Governorate will be made with due consideration of the present availability of locally produced fertilizers, together with an assessment of the current state of the soil fertility. All farmers will have equal accessibility to the planned inputs. They may submit their requests, which will then be evaluated according to the farm holding size, the type of the crop grown and the recommended fertilizer application rates for the particular crop.
- 119. The plan also includes the implements required for agricultural industry requirements for plastic covers, sugar industry, phosphate and urea production with patching material in addition to the urgent need for tractors and sprinkler irrigation rehabilitation sector. All requirements are shown in Annexes.
- 120. Rehabilitation of extension sector is also addressed in the Distribution Plan. the plan includes the essential equipment needed especially for the main 5 centres in the centre and south and also for field extension.
- 121. Agricultural production in many parts of the country relies entirely upon irrigation, whereas in other areas, supplementary irrigation is used to complement rainfall supplies. There is an urgent need both to repair and replace many of the irrigation pumps. Many of the pump units which have been installed previously are powered by electric motors; the frequent electrical power failures which Iraq is currently facing indicate that even installed and operational units cannot always be used. The plan proposes to redress this situation by acquiring 18000 irrigation pumping sets of different capacities, in addition to 5,000 pumps (without engine) with 5,000 suitable generators most of which are to be powered by diesel or electricity, and spare parts for irrigation pumps of different types.
- 122. Plant pests, diseases and weeds impose a serious threat to crop production. The capacity of the plant protection service to efficiently respond to the increasing threat of plant pest and diseases continue to be limited. Currently only 5 aerial spraying helicopters out of the fleet of 27 are operational. However, their total remaining flying hours never exceeded 300. In response to this serious shortage which is drastically effecting the plant protection operations, the plan included provision of six fixed wing agricultural spraying air-crafts with necessary spare parts, overhauling of 12 spraying helicopters, fast consuming spare parts for the aircraft, 20 fuel tankers with needed spare parts as well as 100 field vehicles for ground control operations, (see Annex AGRI 1B).

- 123. With the objective of at least maintaining present levels of production, a range of herbicides, insecticides, fungicides and other pesticides has been proposed. (see Annex AGRI 3). These are needed for more effective control of the most serious and widespread weeds, diseases and pests. The quantities of the herbicides requested, represents approximately 25% of the total estimated national crop protection requirements. Weed control will be undertaken either through ground or aerial spraying methods. The herbicides will be distributed to farmers according to levels of infestation and the area under crop production.
- 124. The pesticides will also be allocated to the Governorates according to infestation levels. The ultra-low volume (ULV) pesticides will be applied through either aerial or ground control application procedures which will be undertaken by the State Board of Plant Protection. Specific targets include sun-pest, local grass hoppers and date palm diseases. Emulsion concentrate (EC) pesticides will be available to the farmers according to their needs. Upon receipt of specific farmer requests, the plant protection staff will determine the type, quantity and application dose required for each individual case.
- 125. Additional agro-chemicals have been requested for the bee industry which is similarly affected by acute shortages of essential control inputs. Distribution and control procedures will be similar to those indicated above for the pesticides, (see Annex AGRI 3).
- 126. In order to minimize the cost of some plant protection measures against some plant diseases and weed, which until now relay on expensive pesticide and herbicide, the plan is to import high concentrates of two insecticides: Sumicidin 92% and Diazinon 95 as well as two herbicides Proponil 96% and Glyphosate for weed control in rice fields and orchards, respectively. The concentrates will be used in formulation of big quantities of insecticide and herbicide to be distributed to the farmers in the 15 governorates, (see Annex AGRI-3E).

Animal Production.

- 127. Live stock raising is practised in most parts of Iraq. Prior to the imposition of the embargo, livestock production contributed between 30 and 40% in value to the total production of the agricultural sector. It also played an important role in providing a significant part of the nutritional requirements at household level. Livestock production continues to constitute a major source of animal protein throughout the country but as a whole, the sub-sector has suffered greatly as a result of the sanctions and its contribution to the country's food security has been drastically reduced.
- 128. Previously, the per capita share of domestically produced animal protein was estimated to be 18 g/day. This may be compared with the minimum per capita requirement recommended by the World Health Organization (WHO) which is 28 g/day and the current domestic production which is estimated to be only 2 g/day. Prior to the imposition of sanctions, the government bridges the gap

through regular importation of red meat and poultry products. However, this is now severely restricted. As a consequence, a marked deterioration in the general health status of the population has been noted, particularly in children up to 15 years of age, who currently represent 45 % of the total population.

- 129. Animal production levels depend upon a number of inter-related factors of which some of the important ones are genetic stock, feed characteristics and animal health. Furthermore, even genetically improved livestock when managed through appropriate feed regimes, could still fail to reach optimum production levels, if attention is not paid to maintaining the animal's health.
- 130. The General Veterinary Directorate within the Ministry of Agriculture is responsible for all aspects of animal health. The total value of annual imports of animal health requirements amounted to some US \$ 30 million. This included acquisition of necessary vaccines, drugs and equipment, as well as necessary field transport means and cold-chain facilities. Previous activities included regular vaccination programme against serious endemic diseases, together with campaigns for drenching, dipping and spraying animals against endo- and ecto-parasites as well as zoonotic diseases.
- 131. This budget has now been drastically reduced and under the Oil-for-Food Programme, the value of inputs imported for animal health purposes has on no occasion exceeded US \$ 5 million every 6 months. The field programme has also been considerably reduced, which is now resulting in serious and widespread outbreaks of a whole range of viral, bacterial, parasitic and tick borne diseases. Both brucellosis and tuberculosis, which were previously under control, are now spreading widely. Currently, brucelloses is positive in 10% of the sampled sheep. In addition, circumstance of screw worm out break and the recent of FMD out break, impose further threat to live stock in the country. In addition, cases of endo parasites, congo fever and echinococcus, have been registered. To carry out efficient disease control measures during the outbreak, additional financial resources beyond the MOU funds are needed. In the prevailing sanction situation, however, long-term strategies and development activities are not possible.
- 132. The plan aims to make maximum use of the limited available resources, supplementing them in key areas selected on a priority basis, with the overall objective of commencing a programme to redress the present serious situation.
- 133. The proposed rehabilitation of the cold chain facilities comprises provision of spare parts and refrigerators, (see Annex AGRI-4).
- 134. The plan also includes the provision of 10 of 15 ton tankers and mobile dip with trailer for increasing the activity of external parasite equipment in the 15 governorates.
- The plan also considered the provision of priority supplies for animal health. This includes vaccines, veterinary drugs and supplies, together with application equipment, (see Annexes AGRI 4A, 4B, 4C, 4D, 4E, 4F and 4G).

- of epidemic diseases. Livestock production in Iraq is normally undertaken according to traditional methods carried out by nomadic groups and characterized by considerable trans-human movements. Such practices result in scattering the livestock population throughout the country, which in turn, obliged the mobilization of veterinary service teams. It is only through such methodology, any control or eradication can be achieved. The plan thus includes the acquisition of mobile veterinary, clinical and field vehicles for transport of the teams involved in the control operations as well as needed chemicals.(see Annexes AGRI 1 and 4). The plan includes basic equipment needed to improve the diagnostic capabilities at the various veterinary centres, (see Annexes AGRI 1 and 4).
- 137. During the 1970s and 1980s, the government focused intense efforts on building up a poultry industry designed to respond to the nutritional needs of the country. This programme included the establishment of a number of different sizes of modern poultry farms for the production of both table eggs and broiler meat. In addition, stock farms, hatcheries and poultry slaughter-houses were established.
- 138. The programme included economic incentives and fostered the establishment of efficient means for the provision of poultry health services. Regular supplies of the necessary production inputs were organized and by 1989, a total of some 8,000 poultry farms were operational. Production at that time was estimated at 1,700 million table eggs and 250,000 tons of poultry meat.
- 139. The Government of Iraq is very much concerned of the nutritional status of the Iraqi population, in particular, the lack of animal protein in the SCR 986 food basket. For this reason, it is in favour of a plan which would allow enhancement of domestic production of animal protein, especially the reactivation of the poultry industry. The broiler and table egg reactivation programme under the enhanced phase-V is continuing. The initial impact of the project is already visible with a marked reduction of market prices of poultry products in the country and also stabilization of red meat market prices. The MOA poultry revival programme managed to rehabilitate 2300 broiler poultry farms out of the farms identified as suitable for rehabilitation in a short time with reasonable resources. The inputs allocated under this Distribution Plan will further sustain the programme achievements and are essential to maintain the planned level of production.
- 140. This plan will address the major components of poultry production through two parallel activities. The first of these will focus on addressing the rehabilitation needs of those farms which most easily and quickly could be brought back into production. The second will provide the basic production inputs for both table egg and broiler production, (see Annex AGRI 5A, 5B, and 5C). The overall objectives include an monthly production of 45 million table eggs and 5,000 to 6,000 mt of broiler meat.
- 141. Poultry production requires housing with a controlled environment in order to allow optimum production levels, whilst reducing the risk of high mortality

- rates due to air borne diseases. The rehabilitation of a further 1,200 farms is envisaged, including the provision of emergency electrical power supplies. Using range of 25-500 KVA generators mounted to 2600 pieces.
- 142. The broiler production cycle is short and requires the regular supply of day old broiler chicks. In addition to the locally produced one-day-old chicks, importation of 15 million broiler-hatching eggs is needed to meet the programme requirements. The plan addressed the shortage of layer hatching eggs and proposes to import 25,000 and 140,000 one day old grand parent and parent laying chicks in series of consignments. The intervention is aiming at supplying the poultry parent stock farms with needed one day parent chicks required for production of layer hatching eggs, (see Annex AGRI 5A).
- 143. Poultry production requires a supply of balanced rations containing both high quality proteins and micro-nutrients. The bulk of the energy requirements will be met through the use of domestically produced maize, barley, sorghum and other grains. The protein and micro-nutrient requirements and energy for both layers and broilers will be met through imports of maize and Soya bean-meal and poultry concentrate and pre-mixes. The Plan also indicates the need to import equipment for farm transport and for the packing of final products in addition to the spare parts required for the operating 110 hatcheries and 30 slaughter houses and poultry houses and also the rehabilitation of the main feed analysis laboratory in Baghdad, (see Annexes AGRI 5A, 5B, 5C, 5D, and 5E).
- 144. The MOA poultry programme has proven the efficiency in regard to broiler production. Poultry meat produced by the programme has a positive impact by increasing the availability of meat and raising affordability by a large number of the people.
- 145. However, egg production is still lagging behind. The main reason is that the risk involved in rearing pullets from one day to 18-22 weeks is high. In order to encourage expansion in egg production, the MOA is planning to establish facilities for producing layers at laying points to be distributed to layer growers. This will be supported by distribution of layer houses to those who are interested in egg production. To achieve this, the plan includes provision 18 poultry houses to be installed in Baghdad within the premises of the state company of Animal resources for the production of one million layers.
- 146. The plan also includes the purchase of 54 layer houses to be distributed to table egg producers. The plan target is production of 250 million table eggs yearly throughout the 15 governorates, (see Annex AGRI-5F).
- 147. The plan also considers maintaining and whatever possible enhancing livestock productivity and production, approximately 85% of the cattle population within the country are indigenous breeds with milk production levels ranging from 200 to 1,500 kg per lactation. Since the imposition of sanctions, attempts to improve breeding of the stock through artificial insemination have been virtually paralyzed. There is an urgent need to reactivate the breeding programme, particularly in view of the prevailing

- economic and food security situation. To these ends, the plan includes importation of 10,000 pregnant heifer and 20 progeny tested bulls and the acquisition of basic artificial insemination equipment, (see Annex AGRI 4I).
- 148. In an attempt to enhance animal protein availability, revival of fish production is considered in this plan. The country has great potential for fish production and considerable investment in this sub-sector, had been made for its development. Similar to the situation in other sub-sectors, fishery sub-sector has also suffered immensely, and the full exploitation of the available potential is constrained by the lack of resources.
- 149. The plan addressed the fishery sub-sector requirement through the provision of equipment needed for fish finger productivity, parent fish stock, needed spare parts to rehabilitate the existing equipment, rehabilitation requirement of fish hatcheries and needed fishing equipment, (see Annex AGRI-4H).
- 150. In line with the above and in an attempt to maximize milk production, the plan included the provision of spare parts for milking machine, portable milking units and milk containers to be distributed to dairy stations and to small and medium dairy farms, (see Annex AGRI 4J).
- 151. The sectoral allocation against the distribution plan for phase XII for the three northern governorates is US \$ 41.10 million. This allocation will permit the following high priority areas to be addressed:
 - Continuation of core ongoing activities such as controlling agricultural pests and weeds, and promoting and improving bee keeping in remote mountain areas. Provision of industrial and other seeds to meet the needs of crop enhancement and diversification projects and for improving the productivity of local vegetable farming.
 - Provision and improvement of agricultural services through appropriate packages and programmes of extension, research and training, mechanization, and agro-meteorological services. The mechanization programme, in particular, aims at introducing new tillage technology, stone picking, and training on respective machinery. Emphasis will be given to small farmers' needs and to rural communities, whenever possible through a participatory and community management approach.
 - Emphasis under this phase is on improving and maintaining the natural range cover, over and above the regular reforestation programme, thereby decreasing soil erosion and increasing forage crops. Needs include provision of forestry and range seeds, forestry tools, supplies, and equipment and machinery to increase seedling production for the range and reforestation programme.
 - Vaccination and management to control livestock and poultry diseases through
 the importation of needed vaccines and drugs in addition to projects for
 controlling trans-boundary and endemic disease. Continued rehabilitation of
 poultry, dairy, and fish production and improvement of livestock feeding. The
 programme will target highland villages through a pilot project on
 veterinarian-supervised-rural community –based animal health services.
 - Construction of two dams for irrigation purposes taking into consideration the medium and long-term critical problem of water resources in the region

especially after the drought of the last three years. The dam sites as well as construction will be thoroughly discussed with the Government of Iraq and observations taken into account at the time of implementation in accordance with the Memorandum of Understanding.

152. The programme strategy continuing to be based on the fact that agriculture is a social and economic mainstay in the three Iraqi governorates of Dahuk, Erbil and Sulaymaniyah. It is, in particular, an important contributor to the health, nutrition and food security at household level. Although the agricultural programme under Security Council resolution 986 (1995) and successive extensions have arrested accumulated deterioration in the sector, in part by improving disease and pest control, further action is required beyond the provision of basic agricultural supplies. Therefore more emphasis is being given to rehabilitate some of the basic agricultural infrastructure, irrigation and water resources. Productivity gains from the programme have also been offset, in affected areas, by two consecutive droughts. Further enhancements in the production and quality of locally produced animal protein, as well as of vegetables and fruit, are also required and planned to be continued in this phase to supplement the food basket.

Irrigation sub-Sector.

- 153. During the last three agricultural seasons (1998/1999, 1999/2000, and 2000-2001) Iraq had experienced a severe drought. While during 2002 the amount of precipitations was satisfactory, intervention measures required for the maintenance and rehabilitation of the existing water resources infrastructures, affected by the drought, are still necessary. A speedy approval from the UN Sanctions Committee for the distribution plan inputs will enable early intervention to overhaul the disastrous consequences left by the drought on human, crop and livestock.
- 154. **Pumping Stations.** The water pumping stations plays a key role in the irrigation systems which have been established in many parts of Iraq. These not only provide the irrigation water to the fields but also, drain part of it out again. Unfortunately, the vast majority of these stations are suffering from frequent breakdowns as the equipment exceeds the end of its useful life. There is also an acute shortage of necessary spare parts for maintenance and repair. In many of these cases, rehabilitation will prove uneconomic and indeed, will often also not prove to be technically feasible.
- 155. The plan therefore proposes that a number of the pumps should be replaced whilst others will be rehabilitated through provision of spare parts. The proposed inputs are presented in Annex AGRI 6. The overall objective of this intervention to provide services for approximately 750,000 ha of land which at present, are suffering from a severe lack of pumping capacity and efficiency.
- 156. **Maintenance of Irrigation Projects.** Whilst the establishment of irrigation projects requires a very high level of investment, it will be a waste if those projects are not adequately maintained. Many of the soils in Iraq are alluvial and are exposed to erosion. This causes high rates of sedimentation in the

rivers, which could adversely affect water supply for irrigation purposes. In order to maintain these resources, the rivers and water channels require continuous dredging. Equipment and sprinkler irrigation systems for maintaining the high efficiency of the irrigation projects need either to be replaced or to be repaired, also to execute some projects in order to increase the Irrigated area and to save in water requirements. Annex AGRI 7 indicates the immediate requirements, which have been identified for inclusion in the present plan.

- 157. **Surveys and monitoring of water storage structures.** The main infrastructure for water storage and control consists of dams and barrages. These not only store the water prior to its distribution but also constitute a vital component of the flood control measures. As part of the maintenance procedure for such structures, periodic monitoring surveys must be undertaken. In addition, the Saddam Dam on the upper Tigris above Mosul requires grouting for its foundations. The inputs required in this regard are presented in Annex AGRI 8.
- 158. In vast areas, ground water resources represent the only source of irrigation and drinking water. Governorates which currently suffer from water shortages include Kerballa, Najaf, Anbar, Tameem, Diyala, Salah Al-Deen and Basrah.
- 159. The inputs consisting of equipment and spare parts which are required for restoring the ground water supply are listed in Annex AGRI 9.
- 160. **Water and Soil Analysis.** Deterioration of water quality and agricultural soils throughout the country necessitates continuous monitoring by the Ministry of Irrigation. These activities need well equipped laboratory facilities. To enable the Ministry to carry out these activities, necessary laboratory instruments and supplies have been included in the plan, (see Annex AGRI 10).
- 161. The implementation of the proposed plan allocated US \$ 442.10 million for agriculture of which US \$ 41.10 million is for the three northern governorates, (Dahuk, Erbil and Sulaymaniyah). US \$ 185 million is allocated for irrigation for the 15 governorates and \$US 216 million is allocated for agriculture for the 15 governorates.
- 162. In accordance with paragraph 40 of the MOU, the Government of Iraq shall provide the Programme with detailed information about the delivery of supplies and equipment to their locations. In order to facilitate the observations of their use, the Programme will conduct the tasks provided for in paragraph 8 of annex-1 of the MOU.

PART SIX.

PLAN OF PURCHASE OF MATERIALS AND REQUIREMENTS FOR EDUCATION SECTOR

- 163. Primary, secondary and higher education in Iraq have been effected by the severe shortage of basic teaching materials, school furniture books, and stationery, printing requirements, training laboratories and other basic requirements. The damages of the classrooms of about 5000 schools remained non-repaired. Most of these classrooms are without doors or windows. In some schools, the classroom, which usually holds 30 students, enrols 70 students. A large number of schools still lacks potable water and sanitation. This sector needs an urgent rehabilitation as indicated by the reports of UN agencies and the report of the UN Secretary-General of 19 November 2001 (S/2001/1089).
- 164. The current situation has led to the decrease in school enrolment and to a considerable increase in the rate of school dropouts, particularly in the primary and secondary stages. The quality of teaching has been effected by the lack of basic educational means and materials. Thus, the general, basic and urgent requirements of the educational sector throughout Iraq are estimated at large amounts, US \$ 235.8 million allocated for this sector, of which US \$ 146.51 million have been allocated in the plan for the basic educational requirements up to the secondary stage, of which US \$ 71.51 million allocated for the three northern governorates.
- 165. Under distribution plans I, II and III, the programme in the three northern governorates implemented several construction and rehabilitation projects for primary and secondary education across the three northern governorates. These activities were expanded to cover higher education in other sectors, such as health, under distribution plans VI and VII. The Education Management Information System "EMIS" Project, which aims at strengthening the local planning and management capacity for education, was initiated under distribution plan VII. Improved planning and management, provided under this project, will enhance budgeting and implementation. For phase XII, more attention will be focused on the quality of secondary and higher education.
- 166. As a continuation of the previous phases, the programme under phase XII will support access to basic education by enhancing the learning environment through improvement of the infrastructure as well as provision of technical assistance for developing the quality of teaching. The number of kindergartens and primary schools will be increased, and local capacity to produce textbooks further strengthened. To sustain programme implementation, the planning and management skills within the educational institutions will be enhanced and supported.
- 167. In secondary education, the programme in the three northern governorates will focus on improving the quality of educational services, and on providing education equipment, tools, and supplies. Newly constructed schools will continue to be provided with all the necessary furniture and textbooks to

- students in all three governorates, including sports and arts facilities/equipment as well as laboratory and educational technology equipment.
- 168. Improving educational services necessitates the provision of transportation facilities to students and teachers. The programme will also diversify educational services through libraries and the training of librarians, and well as through providing students' supplies for sports, music, and art. Significant resources will continue to be allocated to science education, while more emphasis will be given to distance education.
- 169. Training seminars and courses will be conducted to enhance the skills of teachers and administrators.
- 170. For Higher education, there is a need for construction and rehabilitation of universities as well as the provision of necessary equipment and supplies. The plan allocates US \$ 89.29 million of which US \$ 11.29 million for higher education in the three northern governorates.
- 171. Under distribution plans I, II and III, the programme in the Northern Governorates implemented several construction and rehabilitation projects for secondary education. These activities were expanded to cover higher education under the distribution plans VI and VII. Improved planning and management, provided under some projects (EMIS, School Mapping) will enhance budgeting and implementation. For phase XII, as done in Phase X, more attention will be focused on the quality of secondary and higher education.
- 172. In secondary education, the programme in the three Northern governorates will focus on improving the quality of education services, and on providing education equipment, tools, and supplies. Newly constructed schools will continue to be provided with all the necessary furniture and textbooks to students in all the three governorates.
- 173. Improving educational services necessitates the provision of transportation facilities to students and teachers. Transportation of students has contributed to increasing access to secondary education for students who would otherwise have dropped out of school. The programme will also diversify educational services through provision of significant resources for science and vocational education, sports, music and art activities.
- 174. As part of the school rehabilitation, and in order to ensure quality of education programmes, training of teachers and school administrators in all the three governorates, which has been carried out under the previous phases, will continue.
- 175. For higher education in the three Northern Governorates, there is still important needs for construction and rehabilitation of universities and technical institutes as well as the provision of equipment and supplies. This is critical on order to ensure the quality and adequacy of programmes. The plan allocates US\$ 71.51 million for secondary education and US\$ 11.29 million

for higher education in the three northern governorates. Most of the construction and rehabilitation projects and resources planned as well as provision of equipment and supplies under Phase XII will complement similar activities planned under distribution plans VIII, IX, X and XI.

176. Distribution plan XII allocates, in accordance with the priorities settled with our partners, significant resources for provision of equipment and materials, but also includes training and provision of books and other didactic requirements. Construction will continue for the university of Dahuk, the university of Sulaymaniyah, university of Salahaddin, and the technical institutes in the three governorates.

PART SEVEN

INFRASTRUCTURE SUPPORT FOR FOOD, NUTRITION, AGRICULTURE AND HEALTH SECTOR TRANSPORT AND TELE-COMMUNICATIONS AND THE PLAN OF PURCHASE OF MATERIALS AND REQUIREMENTS FOR TELECOMMUNICATIONS AND TRANSPORTATION/BANKING REQUIREMENTS

Telecommunications

- 177. The telecommunication sector is very vital to the Iraq's infrastructure. It has a significant role to play in the improvement of food distribution, medicine, water and sanitation, electricity, and the rest of the humanitarian programme sectors. Before 1991 the telephone density in the country was 5.6 telephones per 100 inhabitants. In 1999 this density has decreased to 3.3 due to damaged exchanges, shortage of spares and increase in the population. World telephone density average is 10%.
- 178. The present state of telecommunication systems throughout Iraq is extremely poor. Apart from the wider social considerations, there are negative consequences for the efficient procurement and distribution of humanitarian supplies. The difficulties experienced by the Ministries involved in implementing the MOU when communicating with their suppliers have contributed to delays in ensuring timely submission of applications and subsequently in the delivery of supplies to Iraq. In the health sector, poor communications between warehouses and hospitals have contributed to delays in the collection of supplies by health facilities. The absence of adequate data links has also hindered the timely passing on of accurate information on requirements. With regard to the electricity sector, this has affected the coordination of operation between the source, the transmission stations and substations.
- 179. A UN mission (August 1998) to Iraq by experts delegated from the International Telecommunication Union (ITU) has concluded that the entire telecommunication infrastructure is deteriorating to such an extent that the quality of service is beyond comprehension. The rate of unsuccessful calls has risen dramatically in recent years and the quality of transmission channels is so bad that it constitutes a major problem for even the transmission of faxes. At present, the transfer of computer files, (data transfer), is almost impossible via the public telephone network and this affects directly UN observation activities and reporting. The mission, further, concluded that the rehabilitation and modernization of the telecommunication network is a huge development project. It would require an investment of US \$ 1 billion or more and its implementation could take between 7 and 10 years. This of course falls outside the SCR 986 Programme.
- 180. In order to ensure a more effective implementation of a distribution plan and enhanced utilization of commodities imported, communication equipment is required. The requirements presented in the current distribution plan have the objective of replacing damaged or obsolete equipment and introducing some

new equipment that will improve communications in areas of activities of the humanitarian programme in Baghdad and other few selected areas. This will directly have positive impact on the improvement of the procurement and distribution system of humanitarian supplies.

- 181. The installation of telecommunication projects requires high level of expertise. Before 1991, the staff of ITPC used to carry out all the installation of telecommunication equipment with minor supervision from the suppliers. The same staff was able to put the majority of the remaining systems, immediately after the war, into operation. The plan envisages the utmost use of local resources for the installation and commissioning of the projects, to minimize expenditures.
- 182. Whilst the establishment of telecommunication projects requires a very high level of investment, this all risks to be lost unless those projects are adequately maintained. In order to maintain these projects properly, planned on-job training is required. It goes without saying that the new equipment to be purchased is of new technical generation. This will require training in the manufacturer premises.
- 183. A reliable system of telecommunications is an integral part of community livelihood and is essential for information flow among service providers and for co-ordination of environmental protection, as well as sectors like food, agriculture, education, electricity, and emergency health services. The telecommunication projects envisaged in the three northern governorates under phase XII cover the installation of 20,000 switching capacity in nine districts/and or sub districts from the areas not covered by previous planned phases at the three northern governorates and the installation of 20,000 lines external plant network in these districts/and or sub districts.

Railways

184. The Iraqi Railways plays a great part in the transportation of food and agriculture products, beginning with the first stage of farming by providing fertilizers, seeds, etc. This kind of transportation from most of the cities in Iraq to different parts of the country requires special wagons and rolling stock. Most of the transportation of food which arrived at Um-Oasr port under the MOU, especially grains and rice, are carried by railways to most cities of Iraq. The Iraqi Railways can not fulfil its obligations to distribute the required quantities of food due to the lack of spare parts for locomotives and wagons, which are needed for this huge transportation task. The number of operating locomotives has been reduced to 65, and the operating number of wagons reduced from 11000 to 1000, representing different kinds of wagons, because of this shortage of spare parts needed for major maintenance. The Iraqi Railways need 365 locomotives per day to be in a position to assure a minimum standard of transportation service. Moreover, the condition of the present railway track system, totalling about 2500 KM, is not in a state of repair which permits the acceptance of this number of locomotives and wagons, because of the non availability of spare parts and materials for maintenance of the tracks, including spare parts for track-maintenance

machines. This situation affects the capacity and the safety of the rail transport system, and will only deteriorate further unless urgent measures are taken to halt the decline.

185. In accordance with paragraph 41 of the MOU, the Government of Iraq shall provide the programme with detailed information about the delivery of supplies and equipment to their locations in order to facilitate the monitoring of their use and to make sure of this. The programme will conduct the tasks provided for in paragraph 8 of annex-l of the MOU.

Ports

- 186. The port of Um-Qasr is the only port in Iraq authorized to receive commodities imported to Iraq against the MOU. Since 1991 the port facilities have not been maintained and consequently they have now degraded to an extent which is severely limiting the ability to handle humanitarian supplies. To prevent further degradation in the situation it is necessary to dredge the entry channels and repair the port facilities.
- 187. Dredging. Prior to 1991, the channel and wharf could accept vessels with a draught of 10.5 metres. Today that draught has been reduced to 8.5 9 metres , and as result larger vessels discharge in Jordan, (Aqaba), and goods are transported by road to Iraq a distance of 1350 KM. This adds 4 to 5 days to the transit time and increase transport cost by \$38-40 per metric tons. Dredging the channels and port will increase in the capacity of Um-Qasr will lead to an increase in the capacity and result in more vessels using the port. This will increase the rate of delivery of Humanitarian Supplies into Iraq and reduce the landed cost of goods by \$38 \$40 per metric tonne.
- 188. **Port Facilities.** The state of port facilities has similarly degenerated. Mechanical handling equipment is old and inefficient; safety equipment, including fire fighting equipment, is obsolete and unreliable; auxiliary power, essential to provide 24 hours operation and for safety and security, is non-existent. The availability of tugs and pilot vessels imposes delays on berthing and accordingly on the speed of discharging humanitarian supplies. The speed of discharging has a direct effect on the receipt and ultimate distribution of humanitarian supplies, as well as the total cost of commodities. Any improvement in this area will have a positive effect on the humanitarian programme.

Land Transport

189. To carry MOU commodities from Umm Qasr and Trebil, different trucks (flat semi trailer, refrigerants, and open trailers lorries of different kinds and capacities are required for this purpose. More than 10000 (ten thousand) trucks are required per year.

Public Transport

190. To overcome congestion in carrying public throughout the country (towns and rural areas), different kinds of buses are required (city and inter city mini buses, coasters, etc.).

Other Sub-Sectors

- 191. Demand for supplying earth-moving equipment (shovels, graders, etc) together with fuel tankers, water tankers, generating sets, etc. are needed to replace old ones. Also needed tyres, spare parts, repair kits and tools for this purpose. Attached as an Annex is a list of projects contemplated.
- 192. In addition, requirements for civil Aviation and Meteorological office are essential to support MOU.
 - Planes under Iraqi Airways carry sick people & disabled for treatment outside Iraq. That means that relevant facilities such as buses, different vehicles, ambulances, etc need to be in good conditions and in operative manner.
 - Metallurgical Reports and information are needed for farming in all sectors throughout the country.
- 193. Total fund for Telecommunication & Transport sector will amount to US \$ 278.5 million.
- 194. In accordance with paragraph 41 of the MOU, the Government of Iraq shall provide the programme with detailed information about the delivery of supplies and equipment to their locations in order to facilitate the monitoring of their use and to make sure of this. The programme will conduct the tasks provided for in paragraph 8 of annex-l of the MOU.

PART EIGHT

PLAN FOR THE REQUIREMENTS OF THE OIL SECTOR

- 195. The implementation of the provisions of distribution plan necessitates achieving steady and sustained rate of oil exports which requires the continuation of the purchase of spare parts, materials and equipment needed for maintenance, rehabilitation and upgrading of obsolete or semi-obsolete equipment and systems as well as development of producing and new oil fields in the upstream sector in order to compensate for the depletion in oil available for export and prevent further decline in oil production, processing, storage, transportation capabilities and ensure better reservoir management and improve environmental protections and pollution control.
- 196. In regard to downstream requirements, the provision of various oil products for local consumption meets a range of essential humanitarian requirements including heating, cooking, transportation and electricity generation. Hence it is essential to sustain the safe operations of the existing refineries with acceptable standards of efficiency, safety and environmental protection, as well as to continue the rehabilitation, revamping & upgrading of the oil product production & distribution facilities to achieve these aims. Similarly, fuel stations and other related facilities should be operated within appropriate safety margins. Hence provision has to be made for the continued supply of urgently required equipment to achieve the above aims.
- 197. In regards to Oil Training Institutes requirements, some basic needs have to be provided for these institutes to enable them to carry out the task of developing middle level technical staff, for the oil industry US \$ 600 million dollars is allocated under UNSCR 1382 for the Oil Sector in phase XII for the supply of spare parts, materials, equipment and cost of service contracts to cover the essential and urgent needs of the Oil Sector, to enable it to implement the necessary works and projects mentioned above. US \$ 350 million dollars will be allocated for the upstream and US\$ 250 million dollars for the downstream requirements .
- 198. It is expected that the secretary general will nominate a team of experts to visit Iraq and discuss with the Ministry of Oil representatives the oil sector's requirements. The agreed list of requirements will be submitted at the conclusions of those discussions.
- 199. In accordance with paragraph (41) of the M.O.U., the Government of Iraq shall provide detailed and timely information about the delivery of supplies of equipment to their locations in order to facilitate and ensure observation of their use.

PART NINE

PLAN FOR THE REQUIREMENTS OF CONSTRUCTION MATERIALS

- 200. The Distribution Plan under phase XII allocates funds to import materials, raw materials and machinery and other related requirements for the Housing and construction needs in all fifteen central and southern governorates under this plan. The requirements for the social welfare projects such as schools, hospitals, streets, mosques, churches and water and sewerage projects as well as other projects which render services to the population.
- 201. The Ministry of Trade will distribute construction items through the State Company for Construction Materials and the State company of Shopping Centers directly from the warehouses of these companies, spread over the mentioned governorates upon presenting the official building licence together with documents showing that the plot on which the housing unit will be constructed is owned by the applicant. Specifying the quantities required shall be done through the engineering department in the mentioned companies taking into account the size of dwelling. The prices of materials supplied shall be decided by the Ministry of Trade. The plan allocates US \$ 146 million for this purpose.

RESETTLEMENT REHABILITATION

- 202. In the three northern governorates, the Program provides housing and complementary basic services to Internally Displaced and others in need of such assistance in accordance with accepted Iraqi standards. Under the present plan an amount of US\$ 70.53 million is budgeted for the construction of new housing units and complementary basic services. Assistance to eligible beneficiaries also includes rehabilitation of community and general infrastructure, for which an amount of US\$ 54.89 million is budgeted. The overall aim is to provide adequate living conditions in viable communities, where basic services such as water supply, drains and sanitation, internal and connecting roads and electricity (where feasible) are provided. In the planning of projects the impact on the environment is now duly taken into account
- 203. Contracts let are in urban as well as in rural areas for the construction or renovation of housing, schools, health facilities, municipal service buildings, for water, sanitation and drainage systems, for roads and bridges and other infrastructure works. The use of the self-build approach, whereby a future occupant of a dwelling participates in the construction of his/her house is rapidly increasing, especially outside of major urban areas. In order to maximize its efficiency, the settlement rehabilitation program intends to promote the production and use of local building materials, including cement, bricks and stone and to upgrade the skill levels of local implementers.
- 204. Settlement rehabilitation projects, of which housing construction projects are an important part, involve the formulation of overall settlement plans, followed by the planning and design of individual projects, by tendering and subsequent construction or rehabilitation as the case may be. For project design, planning and other preparatory activities an amount of US\$ 4.8 million is budgeted.
- 205. Within the overall settlement rehabilitation sector, assistance will be provided to eligible individuals to provide minimum acceptable living conditions and to assist in the process of social and economic development of newly established or rehabilitated communities, though the promotion of self help activities and skills training. Project activities will include: for the consolidation of an immediate relief response and improvement in temporary water supply and sanitation for amount of US \$ 7.6 million; for the establishment of a referral service, to essential resources, for the economically and socially disadvantaged; for the strengthening of the planning and management capacity of the municipal authorities to incorporate initiatives emanating from the newly settled population and their host communities US\$ 5.8 is budgeted, and for the provision of skills development through vocational training and start-up assistance at the community level US \$ 7.8 million is budgeted.
- 206. An allocation of US \$ 151.34 million has been made for these purposes in phase XII.

MINE RELATED ACTIVITIES

- 207. Mines have been used in Northern Iraq from as early as 1965 up until the present day. The years of conflict have yielded a lethal dividend of unmarked minefields and battlefield areas. The presence of mines has considerably diminished the quality of life for people and development activities in rural areas have been slowed down due to the presence of mines and unexploded ordnance.
- 208. There are currently more than 3,600 known minefields in the three northern governorates, which continue to plague the lives of the local population. Civilian landmine casualties are estimated at between ten and twenty per month. An estimated twenty per cent of the arable land within the region cannot be cultivated due to landmines. Resettlement activities are furthered hampered by the presence of landmines.
- 209. The Mine Clearance Programme in the three northern governorates focuses on the locating and removal of landmines to allow the civilian population to lead unimpeded lives. The emphasis is on communities with the greatest needs for village resettlement, agriculture and other humanitarian assistance and rehabilitation projects supporting community activities. Manual clearance teams, dogs and the continued operation of mechanical clearance devices are utilised to address the mine problem. Continuation of victim/prosthesis centres, and of mine awareness training, are core components to the Mine Action Programme.
- 210. The MAP strives to provide a comprehensive approach to resolving minerelated problems and creating an environment in which people can resume normal, productive lives. It includes an integrated approach to:
 - Assess the socio-economic impacts of minefields on communities and individuals in order to determine where actions are needed most;
 - Map, mark and clear minefields;
 - Raise public awareness about mines, and on how to avoid them;
 - Provide medical, rehabilitation and vocational services to mine victims;
- 211. The current plan requires \$19,210,000 for the ongoing support of these activities.

PART TEN SPECIAL ALLOCATION REQUIREMENTS

Introduction

- 212. In addition to the uniform food ration distributed to the entire population, they also receive basic services such as health care, potable water, sanitation facilities, subsidized power supply and rehabilitated shelters under the humanitarian programme. The Ministry of Labour and Social Affairs is the nodal Ministry tasked with the provision of assistance programmes to the most needy segments of the population outside the SCR 986 arrangements. The special allocation envisaged in paragraph 9 of SCR 1360 (2001) for the impoverished segments of the population has been earmarked under the distribution plan to support essential humanitarian services for this group.
- 213. These funds are also intended to establish lasting infra-structural assets and service delivery for the continuing benefit of the needy groups through projects implemented in the health, housing and water and sanitation sectors. In this regard, the government has identified targeted geographic areas in the central and southern governorates. The classified list of requirements under this allocation will be specified in the annexes with special sector codes.

Water and Sanitation

- 214. The condition of water and sanitation systems in many parts of the country remains critical. Large sections of suburban and rural areas have either no access to potable water or receive inadequate quantities, invariably of poor quality. To ameliorate this situation, US \$ 116.54 million has been made available under the special allocation to the General Establishment for Water and Sewage (GEWS) for the supply of electrical and mechanical equipment for plants in affected areas and the implementation of the following projects
 - 1. Mosul Water Project
 - 2. Sinjar Water Project Albi'aj in Ninawa Governorate
 - 3. Daquq Water Project in Ta'mim Governorate
 - 4. Al-Haweja Water Project in Ta'mim Governorate
 - 5. Al-dholo'iya Water Project Unified Mu'tasam in Salaheddine Governorate
 - 6. Abdul Hameed Water Project in Diyala Governorate
 - 7. Al-Ramadi Water Project in Al-Anbar Governorate
 - 8. Al-Taji in Baghadad
 - 9. Abi Ghraib Water Project in Baghdad
 - 10. Al-Diwaniya Unified Water Project in Al-qadissya Governorate
 - 11. Al-Numaniya Water Project in Wasit Governorate
 - 12. Al-Maymouna Water Project in Missan Governorate
 - 13. Al-Nasr district Water Project in Thi Qar Governorate
 - 14. Kirkuk Sewerage Project/First phase in Ta'mim Governorate
 - 15. Baiji Sewerage Project in Salaheddine Governorate
 - 16. Al-Ramadi Sewerage Project /First phase in Al-Anbar Governorate
 - 17. Al-Jissir district Water Project in Baghdad

- 18. Al-Hilla Water Project/Second phase in Babil Governorate
- 19. Kerbala Sewerage Project/Second phase in Kerbala Governorate
- 20. Al-Hindiya Sewerage Project in Kerbala Governorate
- 21. Al-Najaf Sewerage Project/Third phase in Najaf Governorate
- 22. Al-Samawa Sewerage Project in Al-Muthana Governorate
- 23. Al-Rumetha Sewerage Project in Al-Muthana Governorate
- 24. Reverse Osmosis

Board of Youth and Sports

215. The Board of Youth and Sports envisages the procurement and importation of equipment and commodities such as lighting, communication equipment and materials required to construct, equip, and furnish sporting facilities. The plan allocates an amount of US \$ 5 million for this purpose.

Ministry of Housing and Construction

216. The allocation to the Ministry of Housing and Construction will be used for designing and building housing projects in the five governorates of Baghdad, Anbar, Qadisiya, Babel and Salah Al-Deen. This includes all infrastructural services, nets plus social building requirements for such complexes such as schools, shops, clinics, mosques, etc.

Ministry of Health

- 217. The Ministry of Health has prepared a plan for the utilisation of additional funds for the construction of medical facilities as detailed in the annexes. These facilities, providing services to the disabled and other special cases, in addition to the general population, have deteriorated markedly. The plan includes the construction of an atomic hospital, Diabetes specialised centre, specialised hospitals and specialized centres in the southern and central governorates for a total expenditure of US \$ 131 million.
- 218. The construction of medical facilities will improve the provision of specialized services to a reasonable standard for special needs.

PART ELEVEN

OTHER ALLOCATIONS

219. Additional budget allocations have been made to various ministries involved in economic, social and cultural areas.

Ministry of Industry

- 220. \$161 million will be allocated to Ministry of Industry and Minerals. The allocation will be used to purchase materials and equipment to rehabilitate plants that produce construction materials, such as cement, bricks, tiles, plastic pipes, steel and electrical facilities as well as the raw materials and production materials needed to produce such construction materials.
- 221. In order to maintain the production capacities of the Drug factories in Samarrah, Ninewah and Baghdad, raw materials, packing materials, equipment and spare parts to maintain their production capacities are needed and will be purchased within the allocation.
- 222. In order to maintain the local production of paper and writing books for Iraqi schools, it is necessary to bring in raw materials, production materials, spare parts and equipment for the paper plants.
- 223. In support of the local production of field crops, vegetables and fruits, the Ministry of Industry requires huge quantities of fertilizers of different types, greenhouses need plastic covers and irrigation facilities need to be updated. To keep providing these items locally the production of fertilizer plants, petrochemical complex and mechanical equipment factory have to be improved and capacities increased gradually to cover local need.
- 224. The Ministry of Industry will also use the allocation to develop the sugar in Iraq. To aid the cultivation of beet sugar and sugar cane the Ministry will need to import raw materials, chemicals, production materials, spare parts and equipment for sugar plants.
- 225. The Ministry of Industry's allocation will also be used to produce aluminium sulphate for water treatment, and to assemble drinking water treatment and reverse osmosis units for local use. Raw materials, production materials and equipment with spare parts will need to be imported for the above.
- 226. Raw materials, production materials, equipment and spare parts are also needed to maintain factories and plants producing local consumer goods such as dairy products, vegetable oil, cosmetics, soaps and detergents, clothing and shoes, cigarettes, batteries and tyres.
- 227. In order to overcome car congestion, the Ministry of Industry is encouraging bus transportation as an alternative to private cars. In order to do so it wants to

spend part of its allocation to assemble CKD and SKD parts of public buses for towns and rural areas.

Ministry of Housing and Construction

228. The building materials imported by the Ministry of Housing and Construction will be used for the construction of housing complexes and other public utilities in all central and southern governorates. An allocation will be made to the Ministry of Housing and Construction under phase XII to cover the cost of importation of equipment (i.e., bulldozers, cranes, shovels) required by this Ministry to build social housing complexes and other public utilities closely related to housing in all fifteen central and southern governorates, in addition to that these imported equipment will be utilized for the rehabilitation of existing roads and the construction of new roads and bridges. Roads and bridges are part of the countries basic infrastructure and an important factor for the efficient implementation of all humanitarian sectors. Because of the limitations of the railway and the lack of alternative transport means, the country depends heavily on the road infrastructure for the transport of humanitarian goods as well as for the private sector. The plan allocates US \$ 56 million to this element.

Ministry of Religious Affairs

229. \$20 million will be allocated to the Ministry of Religious Affairs in Phase XII for the importation of vehicles, related equipment as well as complete mobile and fixed workshops. In addition the Ministry will spend the allocation to purchase a complete printing press with accessories. Furthermore the Ministry will buy air conditioning sets and carpets.

Ministry of Labour and Social Affairs

230. \$3 million will be allocated to the Ministry of Labour and Social Affairs for supplies and requirements related to its activities.

Ministry of Culture

\$30 million will be allocated for the importation of supplies related to the Ministry of Culture such as recording studios, audio equipment, lighting, mobile television and cinema vehicles, microphone equipment, computers, video designing systems, press machines, air conditioning sets, elevators, pumps, laboratories, surveying machines, interpretation equipment. In addition, the Ministry also requires vehicles and other related equipment, firefighting equipment and alarms.

Ministry of Information

232. \$50 million will be allocated to the Ministry of Information for its requirements. These include printing presses and accessories, television sets,

television and radio studio systems, mobile broadcasting vehicles, also television and radio transmission as well as specialised vehicles.

Central Bank of Iraq

233. An amount of \$25 million will be allocation to the Central Bank of Iraq for the importation of equipment and spare parts for armored vehicles for safe transportation of currency notes and notes. Furthermore, the CBI requires press equipment and modern offset machines, modern intaglio press machines, modern finalization machines as well as other accessories related to the above. The allocation will also be used to purchase central air conditioning and elevators.

Ministry of Justice

234. \$7 million is allocated for required equipment, vehicles and spare parts.

Ministry of Finance

235. \$30 million is allocated for required equipment, vehicles and spare parts.

236. Board of Youth and Sports

237. \$20 million will be allocated for the construction of the Olympic stadium which include several electrical and mechanical works as well as sanitary installations. In addition, this amount will be utilized for the importation of equipment sets, air conditioning sets, communication networks and electronic computers.