

No. 17270

**UNITED STATES OF AMERICA
and
CHAD**

Project Grant Agreement relating to Lake Chad irrigated agriculture (with annex). Signed at N'Djamena on 25 January 1977

Agreement amending the above-mentioned Agreement (with annex). Signed at N'Djamena on 30 August 1977

Agreement modifying the above-mentioned Agreement of 25 January 1977, as amended. Signed at N'Djamena on 28 September 1977

Authentic texts: English and French.

Registered by the United States of America on 24 November 1978.

PROJECT GRANT AGREEMENT¹ 677-77-2, JANUARY 25, 1977, BETWEEN THE MINISTRY OF FOREIGN AFFAIRS AND COOPERATION OF THE GOVERNMENT OF THE REPUBLIC OF CHAD (GOC) AND THE UNITED STATES OF AMERICA ACTING THROUGH THE AGENCY FOR INTERNATIONAL DEVELOPMENT (AID)

AID Project No. 677-0001
Lake Chad Irrigated Agriculture

Article 1. THE AGREEMENT

The purpose of this Agreement is to set out the understandings of the parties named above ("Parties") with respect to the understanding by the Grantee of the Project described herein and with respect to the financing of the Project by the Parties.

Article 2. THE PROJECT

[Section] 2.1. DEFINITION OF THE PROJECT. The Project, which is further described in Annex 1, will consist of financing the preproject costs of a long-term technical assistance project in which several donors are collaborating with the GOC. The purpose of this long-term project is the development of the polders area of Lake Chad for greater agricultural production through the utilization of irrigation systems. Annex 1, attached, amplifies the definition of the Project contained in this section 2.1. Within the limits of the definition of the Project in this section 2.1, elements of the amplified description stated in Annex 1 may be changed by written agreement of the authorized representatives of the Parties named in section 8.3, without formal amendment to this Agreement.

Article 3. FINANCING

Section 3.1. THE GRANT. To assist the Grantee in meeting the costs of carrying out the Project, AID, pursuant to the Foreign Assistance Act of 1961, as amended, agrees to grant the Grantee under the terms of this Agreement an amount not to exceed three hundred thousand United States ("U.S.") dollars (\$300,000).

The Grant may be used to finance costs, as defined in article 6, of goods and services required for the Project.

Section 3.2. GRANTEE RESOURCES FOR THE PROJECT. (a) The Grantee agrees to provide or cause to be provided for the Project all funds, in addition to the Grant, and all other resources required to carry out the Project effectively and in a timely manner.

(b) The resources provided by the Grantee for the Project will be not less than the equivalent of U.S. \$500,000, including costs borne on an "in-kind" basis.

Section 3.3. PROJECT ASSISTANCE COMPLETION DATE. (a) The Project Assistance Completion Date (PACD), which is December 31, 1979, is the date by which the parties estimate that all services financed under the Grant will have been performed and all goods financed under the Grant will have been furnished for the Project as contemplated in the Agreement.

(b) Subsequent to the PACD, AID will not issue or approve documentation which would authorize disbursement of the Grant for services performed subsequent to the PACD or for goods furnished for the Project, as contemplated in this Agreement.

¹ Came into force on 25 January 1977 by signature.

(c) Requests for disbursement, accompanied by necessary supporting documentation prescribed in Project Implementation Letters, are to be received by AID no later than nine (9) months following the PACD or such other period as AID agrees to in writing. After such period, AID giving notice in writing to the Grantee, may at any time reduce the amount of the Grant by all or any part thereof for which requests for disbursement accompanied by necessary supporting documentation prescribed in Project Implementation Letters, were not received before the expiration of said period.

Article 4. CONDITIONS PRECEDENT TO DISBURSEMENT

Section 4.1. DISBURSEMENTS. Prior to the first disbursement under the Grant or to AID's issuance of documentation pursuant to which disbursement will be made, the Grantee will, except as the Parties may otherwise agree in writing, return to AID an appropriate Project Implementation Letter issued by AID and duly countersigned by the Grantee's representatives responsible for the implementation of this Project: i.e., the President Director General of Société de Développement du Lac (SODELAC), the Director of the Office of Planning and Development and the President Director General of the Banque de Développement du Tchad (BDT). The signing of said document will constitute compliance with the condition precedent for a specimen signature of each of these three persons.

Section 4.2. NOTIFICATION. When AID has determined that the conditions precedent specified in section 4.1 have been met, it will promptly notify the Grantee.

Section 4.3. TERMINAL DATES FOR CONDITIONS PRECEDENT. If the conditions specified in section 4.1 have not been met within ninety (90) days from the date of this Agreement or such later date as AID may agree to in writing, AID at its option, may terminate this Agreement by written notice to Grantee.

Article 5. SPECIAL COVENANTS

Section 5.1. PROJECT EVALUATION. The Parties agree to establish an evaluation program as an integral part of the Project. Except as the Parties otherwise agree in writing, the program will include, during the implementation of the Project and at one or two points thereafter:

- (a) Evaluation of progress towards attainment of the objectives of the Project;
- (b) Identification and evaluation of problem areas or constraints which may inhibit such attainment;
- (c) Assessment of how such information may be used to help overcome such problems in this or other projects;
- (d) Evaluation, to the degree feasible, of the overall development impact of the Project.

[Section] 5.2. IMPLEMENTING DOCUMENTS. Implementing documents for this Project and amendments thereto will be issued by AID after appropriate direct consultation with the implementing GOC agencies, SODELAC and the Office of Planning and Development, as required to fulfill AID commitments to this Project.

Section 5.3. AID PERSONNEL. AID-financed personnel assigned to Chad for the furtherance of AID's programs in this country, regardless of whether funding for such personnel has been obligated by this Agreement, shall be accorded the rights and privileges specified in section B.4, Project Grant Standard Provisions Annex, Annex 2,¹ and, in addition, will be exempted from Chadian visa fees.

¹ See p. 97 of this volume.

Article 6. PROCUREMENT SOURCE

Disbursements made pursuant to section 7.1 shall be used exclusively to finance procurement for the project of goods and services (ocean shipping and maritime insurance included) having their source and origin in Chad, in the United States or in other countries indicated in Code 935 of the AID Geographic Code Book as in effect at the time of such procurement.

Article 7. DISBURSEMENT

Section 7.1. DISBURSEMENT FOR PROJECT COSTS. After satisfaction of conditions precedent, the Grantee may obtain disbursements of funds under the Grant for the costs of goods or services required for the Project in accordance with the terms of this Agreement by submitting to AID, with necessary supporting documentation as prescribed in Project Implementation Letters, (a) requests for reimbursement for such goods and services, or (b) requests for AID to procure commodities or services on the Grantee's behalf for the Project.

Section 7.2. OTHER FORMS OF DISBURSEMENT. Disbursements of the Grant may also be made through such other means as the Parties may agree to in writing.

Section 7.3. RATE OF EXCHANGE. The Grantee will make whatever arrangements may be necessary so that funds which AID or any public or private agency introduces into Chad for purposes of carrying out AID's obligations hereunder may be converted into currency of Chad at the highest rate of exchange which, at the time the conversion is made, is not unlawful in Chad.

Article 8. MISCELLANEOUS

Section 8.1. COMMUNICATIONS. Any notice, request, document or other communication submitted by either Party to the other under this Agreement will be in writing or by telegram or cable, and will be deemed duly given or sent when delivered to such Party at the following addresses:

To the Grantee:

Mailing address for legal matters:

Ministry of Foreign Affairs and Cooperation
N'Djamena, Chad

Mailing address for technical matters:

Société de Développement du Lac (SODELAC)
Ministère du Développement Agricole, Pastoral
et de la Lutte Contre les Calamités Naturelles
N'Djamena

and

Direction du Plan et du Développement
Ministère de l'Economie, du Plan et des Transports
N'Djamena

To AID:

Mailing address:

Embassy of the United States of America
B.P. 413
N'Djamena, Chad

All such communications will be in English with the exception that unofficial French translations may be exchanged between the Parties in order to facilitate communications. Other addresses may be substituted for the above upon the giving of notice.

Section 8.2. REPRESENTATIVES. For purposes relevant to legal aspects of this Agreement between representatives of two sovereign governments, the Grantee will be represented by the individual holding or acting in the office of Minister of Foreign Affairs and Cooperation, and AID will be represented by the individual holding or acting in the office of the principal representative of AID present in Chad. For all other purposes, including changes to Annex 1 within the limits of the definition, the Grantee's authorized representatives are the President Director General of SODELAC and the Director of the Office of Planning and Development.

Section 8.3. STANDARD PROVISIONS ANNEX. A "Project Grant Standard Provisions Annex" (Annex 2) is attached to and forms part of this Agreement.

IN WITNESS WHEREOF, the Grantee and the United States of America, each acting through its duly authorized representative, have caused this Agreement to be signed in their names and delivered as of the day and year first above written.

Ministry of Foreign Affairs and Cooperation
of the Republic of Chad:

By: [Signed]

GALMAI YOUSSOUBOMI

Title: Secretary of State for Foreign Affairs and Cooperation

United States of America:

By: [Signed]

WILLIAM G. BRADFORD

Title: Ambassador of the United States of America

By: [Signed]

JOHN A. LUNDGREN

Title: Country Development Officer

PROJECT DESCRIPTION—ANNEX 1

LAKE CHAD IRRIGATED AGRICULTURE

1. *Summary*

This annex describes the objectives of the preproject phase of a technical assistance project to be implemented jointly by the U.S. Agency for International Development, known hereinafter as AID, and the Government of the Republic of Chad, known hereinafter as the GOC, and represented by the Ministry of Foreign Affairs and Cooperation. It also describes the responsibilities of both parties during this preproject phase, for which it obligates \$300,000.

2. *Background*

The long-term AID-financed project, "Lake Chad Irrigated Agriculture", is to be carried out, subject to the availability of funds, in conjunction with a project in the Lake Chad polders area for which other donors, i.e., IBRD, Fonds d'Aide et de Coopération (FAC), and the African Development Bank, are providing loan financing. The design of the AID-financed project is currently nearing completion. This design indicates the following elements for this project:

- Support for adaptive research relative to the multidonor project in the development of Lake Chad polders through irrigation.
- Hydrologic and topographic research concerning the development of irrigation by means of low-lift pumps.

- Implementation of a pilot project in irrigation with low-lift pumps on a limited section of a polder.
- Management aspects of the GOC's implementing agency for this project, Société de Développement du Lac (SODELAC), to include a study of its management characteristics and reorganization requirements, and appropriate subsequent actions.
- Implications which the development of the polders might have on public health in the area, to include a survey of the health situation within the area appropriate to subsequent actions.

In July 1976 other donors provided initial funding and personnel for the project in general excluding research. Their efforts require a simultaneous financial contribution from AID for research. Hence AID is hereby providing \$300,000 as financing for the preproject costs specified below.

3. *Objective*

The \$300,000 made available by this Agreement will be used for the financing of costs related to long-term adaptive research as specified below.

- 3.1. Operating costs of Matafo Research Station, including salaries retroactive to July 1, 1976, for the project engineer, four researchers and four laborers, and initial technical support for managing research for the polders development project including research in grains and socio-economy.
- 3.2. The purchase of three project vehicles.
- 3.3. The construction of four houses at Bol.
- 3.4. The installation of electricity and water in the above-mentioned houses.
- 3.5. The purchase of basic laboratory equipment.

The financial plan for the use of this funding will be the subject of the initial Project Implementation Letter the issuance of which constitutes the condition precedent to the disbursement of funds under Project Agreement No. 677-77-2.

4. *Responsibilities*

4.1. GOC responsibilities

4.1.1. The Ministry of Foreign Affairs and Cooperation will delegate to SODELAC responsibility for coordinating the use of the funding hereby provided.

4.1.2. SODELAC and the Office of Planning and Development will be responsible for supervising the implementation of this Project Agreement in collaboration with AID.

4.2. AID responsibilities

Pursuant to the objective specified in section 3 above, AID agrees to make the amount of \$300,000 available to the GOC and to fulfill its responsibilities to be specified in appropriate Project Implementation Letters.

PROJECT GRANT AGREEMENT 677-77-2 AMENDMENT #1¹ BETWEEN THE REPUBLIC OF CHAD (GOC) MINISTRY OF FOREIGN AFFAIRS AND COOPERATION AND THE UNITED STATES OF AMERICA ACTING THROUGH THE AGENCY FOR INTERNATIONAL DEVELOPMENT (A.I.D.)

AID Project 677-0001
Lake Chad Irrigated Agriculture
Date: August 30, 1977

Article 1. THE AGREEMENT

The purpose of this Agreement is to amend the understandings of the parties named above ("Parties") with respect to the undertaking by the Grantee of the Project described in Project Agreement 677-77-2, dated January 25, 1977.² The Amendment changes the Project as herein stated.

Article 2. THE PROJECT

Section 2.1. DEFINITION OF THE PROJECT. The Project, which is further described in Annex 1, is amended so as to consist of financing the costs of a long-term technical assistance project in which several donors are collaborating with the GOC. The purpose of this Project is the development of the polders area of Lake Chad for greater agricultural production through the use of irrigation systems. The amended Project will comprise four major activities.

The Project shall consist of assisting in (a) the development of Société de Développement du Lac ("SODELAC"), the agency of the Cooperating Country responsible for polder development on the eastern shores of Lake Chad, by financing a management study of SODELAC, equipment for and operations of mobile maintenance brigade and participant training, (b) the development of an agricultural research station at Matafo by financing research facilities and equipment, and technical assistance, (c) providing health activities in the area by financing an epidemiological survey and health services support including epidemiological monitoring, repair and establishment of health facilities in the Bol area, instituting a paramedical system and initiating certain endemic disease control measures, and (d) the implementation of certain special studies including the technical review of irrigated agricultural development in the polder area, a sociological study of the factors affecting the development and resettlement of the polder areas and an environmental assessment of proposed polder development (hereinafter referred to as the "Project").

The special studies are related to the development of the polder area within the above definition of the Project. Any additional funding by AID for this Project will require specific approval of additional project components and availability of funds. Elements of the amplified description stated in Annex 1 may be changed by written agreement of the authorized representatives of the Parties named in section 8.3 without formal amendment of this Agreement.

¹ Came into force on 30 August 1977 by signature.

² See p. 198 of this volume.

Article 3. FINANCING

Section 3.1. THE GRANT. To assist the Grantee to meet the costs of carrying out the Project, AID, pursuant to the Foreign Assistance Act of 1961, as amended, agrees to grant the Grantee under the terms of this Agreement Amendment not to exceed one million one hundred forty-eight thousand one hundred seventy-two United States (U.S.) dollars (\$1,148,172). A subsequent amendment will provide one million six hundred six thousand eight hundred twenty-eight United States (U.S.) dollars (\$1,606,828).

Section 3.2. PROJECT ASSISTANCE COMPLETION DATE. (a) The Project Assistance Completion Date (PACD) which is September 30, 1981, or such other date as the Parties may agree to in writing, is the date by which the Parties estimate that all the services financed under the Grant will have been performed and all goods financed under the Grant will have been furnished for the Project as contemplated in this Agreement.

Article 4. CONDITIONS PRECEDENT TO DISBURSEMENT

Section 4.1. DISBURSEMENTS. Prior to the issuance by AID of documentation pursuant to which disbursement under this Amendment will be made, the Grantee will, except as the Parties may otherwise agree in writing, furnish to AID, in form and substance satisfactory to AID, a budget for engineering or other services, operations and supplies to be used by SODELAC or the Ministry of Health for the Project acceptable to AID.

Disbursement for Construction Contracts

Prior to disbursement under the Grant, or to issuance by AID of documentation pursuant to which disbursement will be made, for any purpose other than to finance the services referred in the first paragraph of section 4.1, the Grantee will, except as the Parties may otherwise agree in writing, furnish to AID in form and substance satisfactory to AID:

- (a) Plans and specifications, bid documents, cost estimates and time schedules for carrying out the element of work being contracted;
- (b) An executed contract for construction or other services for the element of work being contracted acceptable to AID with a firm acceptable to AID.

Disbursement for Equipment Purchases

Prior to disbursement under the Grant, or to issuance by AID of documentation pursuant to which disbursement will be made for any purchase of equipment, the Grantee will, except as the Parties may otherwise agree in writing, furnish to AID in form and substance satisfactory to AID:

- (a) Specifications, cost estimates, delivery schedules, and procurement procedure to insure lowest competitive prices are being obtained;
- (b) A copy of the purchase order or contract for items to be purchased.

Section 4.3. TERMINAL DATE FOR CONDITION PRECEDENT TO FIRST DISBURSEMENT. If all the conditions specified in section 4.1. have not been met within 90 days from the date of this Agreement Amendment, or such later date as AID may agree to in writing, AID, at its option, may terminate this Agreement by written notice to Grantee.

Article 5. SPECIAL COVENANTS.

Section 5.4. SODELAC shall take the environmental assessment financed under this Project into consideration in planning and conducting the operations of the mobile maintenance brigade financed under this Project.

Article 6. SOURCE OF ORIGIN

(a) Except for ocean shipping, goods and services financed by AID shall have their source and origin in the United States or Chad, except as AID may otherwise agree in writing. Ocean shipping financed under the Grant may be procured in any eligible source country except the Cooperating Country.

Section 8.5. LANGUAGE OF AGREEMENT. This Agreement is prepared in both English and French. In the event of ambiguity or conflict between the two versions, the English language version will control.

Section 8.6. All other provisions of Project Grant Agreement No. 677-77-2 dated January 25, 1977, remain in effect and unchanged.

IN WITNESS WHEREOF the Grantee and the United States of America, each acting through its duly authorized representatives, have caused this Agreement to be signed in their names and delivered as of the day and year first above written.

United States of America:
WILLIAM G. BRADFORD
Ambassador of the United States

Government of Chad:
Lt. C. KAMOUGUE WADAL ABDELKADER
Minister of Foreign Affairs
and Cooperation

JOHN A. LUNDGREN
Country Development Officer

Fiscal Data:

Appropriation 72-1171029	}	\$ 940,648
Allotment 729-52-677-00-67-71		
Appropriation 72-11X1031	}	\$ 207,524
Allotment 431-52-677-00-67-71		
TOTAL:		\$1,148,172

ANNEX 1

AMPLIFIED DESCRIPTION OF PROJECT

1. *Summary*

The project will comprise four major activities with relevant subactivities. In outline form they are:

1. The strengthening of SODELAC as a regional development institution:
 - a) Management study;
 - b) Equipping and operating a mobile brigade;
 - c) Participant training.
2. Research
 - a) Agronomic research at and associated with Matafo Research Station;
 - b) Land and water use research and production package development associated with polder development;
 - c) Socio-economic and farm management research.
3. Health Activities
 - a) Epidemiological survey
 - b) Health services support

4. Special studies
 - a) Technical review of polder development;
 - b) Environmental assessment;
 - c) Sociological/resettlement study and analysis.

2. Background

The long-term AID financed project, "Lake Chad Irrigated Agriculture", is to be carried out, subject to the availability of funds in conjunction with a project in the Lake Chad polders area for which other donors, i.e., IBRD (IDA), Fonds d'Aide et de Coopération (FAC), and the African Development Bank, are providing financing. The project calls for AID participation in agronomic research, socio-economic studies, health studies, soil/water studies, strengthening of SODELAC's management capabilities, and infrastructure development inputs.

A project, reflected in this Agreement, has been developed to do the above and to form a basis for long-term area maintenance and further polder development.

The goal of this project is to help small farmers improve their economic status, live better, and produce more food. In order to accomplish this, the growing of both food and cash crops will be encouraged. The program will take advantage of work done in the polders area previously and the work on the reconstruction of polders now under way.

The proposed results of the project are: (a) greater crop production, (b) better utilization of livestock resources, (c) evolution towards agriculture characterized by high technology, (d) insurance against the effects of droughts, and (e) the development of the rural sector around Lake Chad.

3. Project

The \$2,755,000 made available by this Agreement Amendment will be used for the financing specified below:

3.1. The management study will be done by a private contractor who will make comprehensive analysis of SODELAC to: (a) identify problems and constraints in all functional areas to determine potential for improvement; (b) appraise needs in management planning, and control systems; (c) determine needs for changes in functions, operational systems, and organizations; prepare specific recommendations for an as needed comprehensive reorganization of SODELAC together with a schedule and workplan for accomplishing the major steps of any reorganization.

3.2. A mobile brigade will be formed and made operational to perform maintenance and development of infrastructure activities. SODELAC will plan and conduct the brigade's work taking into consideration the environmental assessment financed under this Project. These will be in the area of Bol and existing polders. It will upgrade local communication and polder systems serving agricultural development. The mobile brigade will be headquartered in Bol using equipment and maintenance facilities on hand and to be purchased under the Project. The Project will finance the purchase of additional equipment and pay all of the operating expenses of the unit for two years or longer. In the third year SODELAC will begin to pay some portion of the operating expenses. The additional equipment will include diesel-powered portable pumps, a bulldozer, a loader, tractor and a low-bed trailer, trucks, vehicles, surveying equipment, tools and work site equipment. The other cost items will include salaries and costs of professional personnel, operators of machines, laborers, fuel, oil and supplies.

3.3. Participant training outside of Chad will be for professional and nonprofessional personnel in business management, extension, agronomy, irrigation, seed production and processing. This training will be done mostly in neighboring African francophone countries but some may occur in the U.S. or any other country capable to insure the training.

3.4. The development of Matafo Research Station is a basic necessity in the development of the polders. The problems and objectives are : (1) to develop a Chadian research staff and a production program that will reclaim and maintain the fertility of Lake Chad archipelago land that

has highly organic soil, (2) to develop an agricultural production system that will be a sufficient incentive to attract and stabilize the rural population and will be within the management capabilities of local farmers, and (3) to develop least-cost systems for water distribution, irrigation, and drainage that will prevent salinization/alkalinization. Research will be adaptive using the local past research experience and information available from international research stations such as IITA, CIMMYT and IRRI. Delivery systems and "production packages" will be developed for use by the farmers.

The financing for the Research Station will include the hiring of expatriate experts and Chadian research personnel for a period of two years and consultants; purchasing laboratory equipment, farming supplies and equipment, vehicles, and irrigation/drainage equipment. Also, there will be the financing of construction and repair of houses, laboratory, salaries of Chadian research staff, operation of equipment and facilities, travel costs, and training costs.

3.5. Land and water use research will be conducted to determine methods, chemical or mechanical, for controlling salinity/alkalinity. This will be coordinated with irrigation and drainage tests. The soils/water laboratory and staff will be improved by SODELAC in collaboration with ORSTOM. Equipment will be added or replaced in the laboratory and the staff will be trained in testing management and production factors.

3.6. Social and economic factors related to polder development, resettlement of farmers, agricultural production and marketing will be studied and determinations or recommendations for the polder program will be made.

Financing will include all costs of surveys and analysis. Investigations will include small holdings, labor requirements, living conditions, commercial operations, farmer selection/settlement, area economics and impact (including cultural).

3.7. An epidemiological survey, a continuation of earlier work, will establish baseline criteria related to the extent to which schistosomiasis, malaria, and other diseases affect the polder area population. The present health level of the population will be determined. The prevalence and distribution of vectors of the principal endemic diseases will be determined. The adequacy of health services will be measured and recommendations for improvements will be made. An initial survey has been made and two more will be required; one in October (1977), the second in January (1978).

3.8. Health Services Support will continue through the life of the Project. First, epidemiological monitoring of the polders area will continue to determine long-term vector/disease occurrence. Secondly, the Bol medical facilities will be repaired and re-equipped. Third, a low-cost paramedical system will be instituted in the polder area. Fourth, a limited number of endemic disease control measures will be taken.

The support will include financing the repairing of the hospital and constructing a training/education/health center. Equipment and supplies will be purchased to supplement or replace present equipment. Some of the equipment and supplies will be for outlying facilities.

Financing will also be provided to establish a paramedical system with the purpose of placing a team in each polder section (400 hectares). Supplies and training are included.

3.9. An endemic disease control program for endemic disease will be financed. Various preventive controls under the program will be financed such as elimination of standing water at construction sites, drainage, ditch cleaning and improvement, weed control, and in general the elimination of vector habitats.

3.10. Special studies will be financed to determine: (1) the technical soundness/cost effectiveness of present polder design, (2) the impact of the environment of the polder projects, and (3) the sociological effects of settling the polder areas.

The studies will be contracted for by AID using Project Grant funds. These studies are required before additional AID-funded polder construction can be considered. Further construction would require specific approval of additional project components and the availability of funds.

3.11. Further details of the above items or additional items will be included in Project Implementation Letters as necessary.

4. *Financial Plan*

A summary budget plan for the project follows:

SUMMARY TABLE OF ESTIMATES/EXPENDITURES		
Contract Services		\$814,000
Polder Special Study	\$160,000	
Polder Health Study	46,000	
SODELAC Management Study	140,000	
Research Services	468,000	
Commodities		\$495,000
Portable Pumps	80,000	
Bulldozer (D 4 equivalent)	52,000	
Loader	40,000	
Truck tractor and low-bed trailer	68,000	
Truck	20,000	
Vehicles (Mobile brigade) (4)	32,000	
Vehicles (Research) (4) SODELAC (2)	46,000	
Surveying equipment	8,000	
Handtools	8,000	
Site equipment	7,000	
Laboratory equipment	8,000	
Laboratory material	12,000	
Farming equipment (tractors, etc.)	14,000	
(Pumps and irrigation)	100,000	
Other Costs		\$1,446,000
Salaries (Mobile brigade)	41,000	
Salaries (Research)	112,000	
	(153,000)	
Operations		
Fuel, oil, parts (Mobile brigade)	300,000	
Fuel, oil, parts (Research)	226,000	
	(526,000)	
Construction/Repair		
Houses (4)	204,000	
House repair	40,000	
Laboratory repair	46,000	
Hospital/Medical Training Center	73,000	
	(363,000)	
Training	40,000	
	(40,000)	
Health		
Elimination of health hazards	15,000	
Paramedic program	24,000	
Service facilities	40,000	
Endemic disease control	40,000	
Wells	62,000	
Rodent control	16,000	
	(197,000)	
Contingencies	167,000	
	GRAND TOTAL	\$2,755,000

PROJECT GRANT AGREEMENT NO. 677-7-2, AMENDMENT 2,¹
BETWEEN THE GOVERNMENT OF THE REPUBLIC OF CHAD
("GRANTEE") AND THE UNITED STATES OF AMERICA ACTING
THROUGH THE AGENCY FOR INTERNATIONAL DEVELOPMENT
(AID)

AID Project 677-0001
Lake Chad Irrigated Agriculture
Date: September 28, 1977

The purpose of this amendment is to obligate the additional sum of one million six hundred six thousand eight hundred twenty-eight United States dollars (\$1,606,828) for the above-mentioned project as defined in Project Grant Agreement No. 677-77-2 and its Amendment No. 1.² All other provisions of said Grant Agreement No. 677-77-2 and its Amendment No. 1 remain unchanged and in effect.

IN WITNESS WHEREOF the Grantee and the United States of America, each acting through its duly authorized representative, have caused this Amendment No. 2 to be signed in their names and delivered as of the day and the year first above written.

United States of America:
By: [Signed]
WILLIAM G. BRADFORD
Title: Ambassador of the United States of
America

Republic of Chad:
By: [Signed]
KAMOUGUE W. ABDELKADER
Title: Ministre des Affaires Etrangères et
de la Coopération³

By: [Signed]
JOHN A. LUNDGREN
Title: Country Development Officer

Fiscal Data:
Appropriation: 72-11X1031
Allotment: 431-52-677-00-67-72

¹ Came into force on 28 September 1977 by signature.

² See pp. 198 and 209 of this volume.

³ Minister of Foreign Affairs and Cooperation.