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OFFICE OF ENGINEERING  
BUREAU FOR DEVELOPMENT SUPPORT  
AGENCY FOR INTERNATIONAL DEVELOPMENT  
WASHINGTON, D. C. 20523

INFORMATION PACKET  
FOR  
ARCHITECT-ENGINEER FIRMS  
AND  
CONSTRUCTION CONTRACTORS

February 1980

FOREWORD

The United States through the Agency for International Development (AID) provides development assistance to selected lesser developed countries in the free world to advance mutually agreed upon objectives. Statutory authorization for this assistance is provided by the Foreign Assistance Act (FAA) of 1961, as amended, and funds are provided through annual appropriations. In a statement of policy on development assistance authorizations, the Congress, in the FAA of 1973, declared that the freedom, security, and prosperity of the United States are best sustained in a community of free, secure, and prospering nations, and that in particular, the Congress recognizes the threat to world peace posed by aggression and subversion wherever they occur, and that ignorance, want, and despair breed the extremism and violence which lead to aggression and subversion. Therefore, the Congress declared that it is not only expressive of our sense of freedom, justice, and compassion but also important to our national security that the United States, through private as well as public efforts, assist the people of less developed countries in their efforts to acquire the knowledge and resources essential for development and to build the economic, political, and social institutions which will meet their aspirations for a better life, with freedom, and in peace.

To achieve objectives of the Foreign Assistance Act, Congress defined various principles in the FAA of 1973 under which authorized programs should be carried out. Included as a principle was advice that the first objects of assistance shall be to support the efforts of less developed countries to meet the fundamental needs of their peoples for sufficient food, good health, home ownership and decent housing, and the opportunity to gain the basic knowledge and skills required to make their own way forward to a brighter future with particular emphasis on utilization of resources for food production and voluntary family planning. The Congress also expressed its sense that the President should place appropriate emphasis, among others, on criteria that:

- 1) Bilateral development aid should concentrate increasingly on sharing American technical expertise, farm commodities, and industrial goods to meet critical development problems, and less on large-scale capital transfers, which when made should be in association with contributions from other industrialized countries working together in a multilateral framework.
- 2) Future U.S. bilateral support for development should focus on critical problems in those functional sectors which affect the lives of the majority of people in the developing countries; food production; rural development and nutrition; population planning and health; and education, public administration, and human resource development.
- 3) U.S. bilateral development assistance should give the highest priority to undertakings submitted by host governments which directly improve the lives of the poorest of their people and their capacity to participate in the development of their countries.

The foregoing is furnished in order that U.S. firms who are interested in participating in A.I.D. financed projects may better understand the framework under which contracting opportunities are advertised for their services. The emphasis by Congress on assistance to the poorest people of the countries whom we assist is significant since expanded social and humanitarian programs have resulted therefrom with concomitant de-emphasis on development of capital projects with which architect-engineer services were normally associated prior to 1973.

The A.I.D. program includes Development Assistance and the Economic Support Fund (ESF). The funding proposed for FY 1981 is \$1.882 billion for Development Assistance and \$2.08 billion for the Economic Support Fund totaling \$3.96 billion.

The proposed Development Assistance program consists of the following functional categories:

	(Millions of Dollars)
Agriculture, Rural Development and Nutrition	\$ 729.3
Population Planning	238.0
Health	164.2
Education and Human Resources Development	122.1
Selected Development Activities	160.6
Sahel Development Program	113.4
American Schools and Hospitals Abroad	15.0
International Disaster Assistance	25.0
Operating Expenses	289.0

Architect-engineer and construction services result from projects which are supportive of these categories and are often part of larger projects involving other disciplines.

Seventy five percent of the requested \$2.08 billion Economic Support Fund (ESF) will be allocated to the Middle East as part of continuing U.S. efforts to achieve a stable peace. The balance of the request would be used primarily to relieve economic dislocations resulting from the struggle for majority rule in southern Africa and to provide support for Turkey in its efforts to stabilize its economy. Some major architect-engineer and construction contractor opportunities are expected under ESF funds in Egypt, Jordan and Syria.

Based on the above, architect-engineer opportunities will continue to exist throughout A.I.D.'s Geographic Regions (Africa, Asia, Latin America and the Caribbean, and Near East). For these we appreciate the interest expressed by industry in participating and welcome its continuation since only through this competitive interest can we hope to maintain the professional excellence with which our projects are implemented.

As an introduction to "newcomers" and a review for "oldtimers," a summary of procedures followed by recipient countries of our assistance (Borrower/Grantees) and by A.I.D. when procuring architect-engineer services is furnished hereinafter. We hope this will be both informative and useful to you.

PROCUREMENT OF ARCHITECT-ENGINEER  
PROFESSIONAL AND CONSTRUCTION SERVICES  
FOR A.I.D. PROJECTS

The Agency for International Development makes loans and grants to selected developing countries throughout the world to finance engineering and economic feasibility studies, engineering designs, supervision of construction, construction services, and equipment procurement. Loan recipient countries select consulting firms for planning and engineering in accordance with Agency guidelines, which are quite similar to the Federal Procurement Regulations. Construction contracts are required by Agency policy to be fixed price (lump sum or unit price) and awarded by the recipient country through publicly opened sealed bids.

A.I.D. is required to approve the contractors and the contracts for both construction and engineering services. This approval is issued either in Washington or in the field (Mission level) depending upon the established level of authority for the Mission in question.

In loan recipient countries, officials who have authority in the selection of engineers/constructors may vary from project to project. Such individuals are normally located in a Ministry of Public Works or similar governmental agency.

Introduction of projects into development programs is governed by A.I.D., which requires the host country to initiate requests for assistance. Such requests are made to our Missions. The Mission Director, upon determination that the project is feasible and in keeping with country development goals and U.S. objectives, forwards the request with his recommendation to Washington for further reviews and consideration relative to worldwide priorities and availability of funds.

Many considerations involving such matters as government-to-government agreements, specific terms of loans or grants, and priorities within a given country and worldwide, may impede precise time scheduling of projects. In addition, A.I.D. operates on an annual appropriation basis subject to legislative changes which may further defer, modify or cancel proposed projects.

Detailed scopes of work for consulting services are normally developed when projects are finally approved for execution and are not released until the contractor selection program has been initiated.

The A.I.D. Office of Small and Disadvantaged Business Utilization in Washington, D.C., maintains an extensive file, the Contractor Index, of consulting firms which desire to be registered with A.I.D. This file is used only to review qualifications of firms as possible candidates for direct A.I.D. contracts. Since the number of direct A.I.D. A&E contracts is relatively small when compared to A-E contracts awarded by our Borrower/Grantees, interested firms are encouraged to monitor the Commerce Business Daily for possible contract opportunities in which they may wish to express interest. A.I.D. financed projects are generally advertised in the back section under a heading titled Department of State, A.I.D. Financed.

Firms should note that expressions of interest for Borrower/Grantee contracts are to be forwarded directly to the country advertising the project for their consideration/evaluation. The A.I.D. Index of A-E firms is not reviewed for possible candidates for Borrower/Grantee contracts.

Architect-Engineer firms wishing to be included in A.I.D.'s Index of A-E firms should submit one copy of form SF 254 to the following:

Office of Small and Disadvantaged                      Phone: (703) 235-9155  
Business Utilization  
Small Business Division  
Agency for International Development  
Washington, D.C. 20523

(Annual updated SF 254s should also be sent to the Small Business Division).

Forms Available:

Architect-Engineer Questionnaire, Form No. SF 254  
Architect-Engineer Questionnaire (Specific Project), Form No. SF 255

Forms Undergoing Design:

An attachment to the SF 254 is being finalized by A.I.D. and a new Consultant Questionnaire for Firms (other than A-E firms) and a separate Individual Consultant Questionnaire are presently being designed and will be made available to the public following approval by the Office of Management and Budget. Consultant Firms and Individual Consultants currently may register in the Contractor Index or separate Roster of Individual Consultants by phoning the above number. All registered firms and individuals will be sent a copy of the new questionnaire(s), as appropriate, when they become available. Firms or individuals who wish to maintain brochure information, vitae, or resumes on file with A.I.D. may mail them to the above address of the Small Business Division.

Proposed procurement of services in excess of \$10,000 on most of our technical service requirements and all significant A.I.D. financed construction projects are publicized in the Commerce Business Daily which is published by the U.S. Department of Commerce. Information concerning subscription to this publication may be obtained by writing to the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. Contract awards are also announced in the Commerce Business Daily.

Principal officers of the Central Office of Engineering (DS/ENGR) and from the four geographic bureaus are listed on the following page.

DS/ENGR

Director	Frank A. DiMatteo (703) 235-9827
General Engineer/Architect Division Chief	Juan B. Cabrero (703) 235-9829
Transportation Engineer Division Chief	John P. Zedalis (703) 235-9816
Industrial/Chemical Engineer	Harold Le Sieur (703) 235-9829
Electrical Engineer	Erno (Mike) Hanz (703) 235-9816
Sanitary/Water Resources Engineer	Francis Montanari (703) 235-9816
Architectural Engineer	James J. Claps (703) 235-9800
Airports/Equipment Engineer	Ronald Henrikson (703) 235-9816
Civil/Construction Engineer	Palmer Stearns (703) 235-9800

Mailing Address, DS/ENGR

Office of Engineering  
Agency for International Development  
Washington, D.C. 20523

Location, DS/ENGR

Office of Engineering  
1735 North Lynn Street  
5th Floor, Pomponio Plaza  
Rosslyn, Virginia 22209

Geographic Bureaus

Chief Engineer for ASIA, ASIA/FD	Wilson Hodgins (703) 235-8964
Chief Engineer for Latin America and the Caribbean, LAC/DRE	Charles Mathews (202) 632-8279
Chief Engineer for Near East, NE/PD	Mike Kingery (202) 632-9817
Chief Engineer for Africa, AFR/DR	Fred Zobrist (202) 632-3946

A.I.D. maintains a registry of architect-engineer firms for purposes of having up-to-date qualification information on firms who are interested in performing on A.I.D. financed projects. SF 254 (Architect-Engineer Questionnaire) is used for registration purposes. Instructions for its submission and a general guide on procurement procedures for A-E services have been described. Please note that A.I.D. and recipient countries of A.I.D.'s assistance will specify the SF 254 and SF 255 as the prequalification forms to use when advertising for A-E services.

All firms are cautioned to the fact that filing of their A-E questionnaires with A.I.D. does not necessarily entitle a firm to automatic consideration for A.I.D. financed projects. If the proposed procurement is to be administered by a Borrower/Grantee country, our central registry of A-E firms is not screened for possible candidates since the Borrower/Grantee country is solely responsible for the selection and award processes. If, however, the proposed procurement is to be a contract directly with A.I.D., the central registry will be screened for possible candidates for the proposed work. We submit, however, that it would be to a firm's interest to submit an interest expression even if the procurement is to be a direct contract since supplemental information requirements may be included in the advertisement and a responding firm would enhance its prequalification opportunities through furnishing of such supplements.

There are two types of contracting used for procurement of architect-engineer services for A.I.D. financed projects. The first is one in which the selection of firms and controls for contracting including contract awards are by the Borrower/Grantee country; in the other type A.I.D. contracts directly with a U.S. firm. In the first instance, Borrower/Grantee countries responsible for selection and procurement processes, normally follow A.I.D. guidelines for same (Chapter 1, Handbook 11). In the second case where A.I.D. contracts directly, the U.S. Federal Procurement Regulations supplemented by A.I.D.'s procurement regulations will dictate procedures to be followed for selections and awards of architect-engineering contracts. Procedures under both cases are quite similar.

Projects of any significance, whether contracted by Borrower/Grantees or by A.I.D., are required to be advertised in the Commerce Business Daily which is a Department of Commerce publication. We suggest, accordingly, that interested firms monitor this publication to learn of any A.I.D. financed projects for which they may wish to express their interest. The advertisements in this publication will reflect any supplemental information requirements, that may be required for the initial prequalification and subsequent selection purposes. Such requirements often occur because of the nature of projects and because they are all located overseas. Since A.I.D. is involved with development assistance, A-E projects arising from such assistance are generally infrastructural in nature and usually consist of transportation, water resources, sanitary, water supply, and power projects. Services required for implementation of these, therefore, generally consist of engineering services for feasibility studies, final design, supervision of construction and technical advisory services.

In summarizing the above information, architect-engineer firms are invited to note that the principal source of A-E contracts under A.I.D. financed programs is through Borrower implemented loan projects. A-E selections under Borrower contracts follow procedures furnished in our Chapter 1 of the Country Contracting Handbook. The principal steps involved are:

- (1) Publication of Notice in the Commerce Business Daily.
- (2) Prequalification of firms by the Borrower Country after receipt of expressions of interest (Forms SF 254 and SF 255).
- (3) Solicitation of technical proposals from "short-listed" firms. After short-listing is done by the Borrower country, an RFP is sent to the short-listed firms requesting technical proposals.
- (4) Evaluation of technical proposals and selection of proposed consultant contractor.
- (5) Invitation of price proposal from first choice firm followed by negotiations and execution of contract by Borrower Country and contractor.

Approval by A.I.D. of relevant documents will be required with respect to each of the foregoing steps.

For the relatively few direct A-E contracts which A.I.D. enters into each year, the principal steps are:

- (1) Publication of Notice in the Commerce Business Daily.
- (2) Receipt of SF 254s and SF 255s forwarded by interested firms.
- (3) Review of A.I.D.'s Index of A-E firms for possible candidates; if available, candidates are requested to forward SF 255 forms.
- (4) Evaluation by Selection Panel.
- \* (5) Short-listing of firms and conducting interviews with short-listed firms.
- (6) Invitation of price proposal from first choice firm followed by negotiations and award of contract by A.I.D.

\*Technical proposals may or may not be requested from short-listed firms depending on extent and complexity of scope involved.

SMALL AND MINORITY BUSINESSES

A.I.D. has a program to foster and increase contracting opportunities for small businesses and socially and economically disadvantaged business concerns (which include minority and women-owned organizations). This is part of a general Federal Government effort to award more contracts to such institutions.

The focal point within A.I.D. for this program is the newly created Office of Small and Disadvantaged Business Utilization (SDB), an independent office working directly under the A.I.D. Administrator. This Office counsels all organizations and individuals interested in doing business with A.I.D. but with special attention to small and minority businesses.

The SDB Office reviews all requests for direct A.I.D. contracting and recommends selected procurements for small business set-asides or 8(a) awards, as appropriate. The strength of these recommendations is largely determined by the quality and depth of source lists of small and minority firms which this Office can derive from its Contractor Index.

Key officers of SDB who may be contacted regarding business opportunities with A.I.D. are as follows:

Director SDB -- Raymond C. Malley

Small Business Division (Advises the general public including small non-minority businesses)

Division Chief -- Nedra M. Rowe  
(703) 235-9155

Counselor -- Raymond Dionne  
(703) 235-9155

Special Minority Business Concerns Division  
(Advises the minority community and women)

Division Chief -- Jerome A. Patterson  
(703) 235-2274

Counselor -- Walter Coles  
(703) 235-2274

**FY 1981 PROGRAM**

**AGENCY FOR INTERNATIONAL DEVELOPMENT**

**LISTING OF PROJECTS REQUIRING  
ENGINEERING AND CONSTRUCTION SERVICES**

This listing was obtained from A.I.D.'s FY 1981 Congressional Presentation and is furnished in order that firms interested in participating on A.I.D. financed projects may gain some insight on the types and magnitude of projects which will require inputs from architect-engineer consultants and construction contractors. However, firms should keep in mind that the scale and scope of many projects will change and some projects will fall out or be absorbed into programs financed by other donors. Further, many of the small projects which are uncomplicated will be designed and constructed by local firms or through force account methods.

WATER RESOURCES

AFRICA

- Senegal - Small Irrigated Perimeters - \$1.53 mil. Grant  
Introduce irrigated crop production in the Bakel area and test feasibility of a solar pumping system. \$368,000 is proposed for technical assistance, \$170,000 for procurement of pumps and parts and \$552,000 for construction of dikes, canals, land clearing and leveling.
- Senegal - Village Agricultural Development - \$0.825 mil. Grant  
To promote intensified irrigated agriculture. \$200,000 is proposed for procurement of irrigation commodities and \$350,000 for diking, leveling, canal construction and pumping stations.
- Sahel Regional - Gambia River Basin Development - \$4.0 mil. Grant  
Assist the Government in developing a long range plan for development of the Gambia River Basin. \$2,314,000 is proposed for technical assistance (to be selected), \$1,140,000 for procurement of irrigation and agricultural equipment, and \$546,000 for an environmental assessment and aerial photography (to be selected).
- Africa Regional - Regional Water Resources - \$1.265 mil. Grant  
To improve the capacity of Africans to utilize water resources in Central and West Africa through assistance to the Inter-African Committee for Hydraulic Studies (CIEH). \$520,000 is proposed for technical assistance and \$503,000 for construction of buildings.

LATIN AMERICA AND THE CARIBBEAN

- Honduras - Water Resources and Afforestation - \$5.0 mil. Loan  
To develop Government's capacity to analyze problems, develop policies and implement water resources programs. \$2,500,000 is proposed for personnel and training, \$1,500,000 for commodities and \$1,000,000 for technical assistance.
- Peru - Watershed Management - \$10.0 mil. Loan, \$0.2 mil Grant  
To assist the Government to promote the rational use of soil and water resources to increase food production in the Andean highlands, \$800,000 is proposed for feasibility studies, \$2,700,000 for construction and \$2,700,000 for equipment.

ASIA

- Bangladesh - Rural Irrigation Works - \$5.0 mil. Grant  
To extend irrigated crop area by assisting labor-intensive farm-level irrigation construction programs. \$1,800,000 is proposed for technical assistance, and \$2,800,000 for construction of irrigation infrastructure.

Bangladesh - Integrated Land and Water Use - \$5.0 mil. Grant

To introduce in one hydrologic region the optimum combination of water use and management, agricultural inputs and cultivation practices to promote efficient irrigation for small scale farming. \$3,700,000 is proposed for irrigation infrastructure, and \$700,000 for consultant assistance.

India - Rajasthan Medium Irrigation - \$10.0 mil. Loan

To increase food production and the income of small farmers in Rajasthan. \$10,000,000 is proposed for construction costs.

Indonesia - Sederhana Irrigation II - \$4.5 mil. Grant

Continuation of project to expand capacity of national and provincial agencies to carry out small scale irrigation works. \$4,500,000 is proposed for technical assistance. Contractor to be selected.

Indonesia - Citanduy River Basin Development II - \$3.0 mil. Grant  
\$9.7 mil. Loan

To increase productivity and income of small farmers through flood prevention, upper watershed management, and erosion and siltation control. \$5,000,000 is proposed for construction of works, \$2,200,000 for short-term training, and \$2,000,000 for commodities.

Sri Lanka - Water Management - \$0.5 mil. Grant

To develop a replicable institutional capability to manage major irrigation schemes more efficiently and effectively with active farmer participation. \$500,000 is proposed for a technical assistance contract (to be selected).

Sri Lanka - Mahaweli Basin Development - Phase II - \$25.0 mil. Loan

To construct the irrigation infrastructure required to irrigate land in the Maduru-Oya Basin of east central Sri Lanka as a part of the larger Mahaweli Basin Development Program. \$25,000,000 is proposed for the services of a U.S. contractor to construct the downstream irrigation system.

Thailand - Northeast Rainfed Agricultural Development - \$2.5 mil. Grant  
\$7.0 mil. Loan

To improve the agricultural productivity of low-income farm families through more effective use of existing soil, water, climatic conditions and labor resources. \$1,500,000 is proposed for technical assistance; and \$4,000,000 for construction of subprojects.

Thailand - Northeast Small Scale Irrigation - \$0.5 mil. Grant, \$2.0 mil. Loan

To improve irrigation and on-farm agricultural services for Northeast farmers. \$250,000 is proposed for Consulting Services, and \$1,900,000 for construction of on-farm structures.

Asia Regional - ASEAN Regional Development - \$3.0 mil. Grant

To assist the Association of Southeast Asian Nations in various areas to include watershed management and conservation.

NEAR EAST

Egypt - Land Reclamation - \$25.0 mil. Grant

To reclaim 10,000 acres of desert land for agricultural production. \$3,720,000 is proposed for technical assistance, \$15,500,000 for equipment, and \$5,370,000 for construction and land development.

Egypt - Irrigation Management - \$15.0 mil. Grant

To establish a national water use and management extension program focussed on small farmer production. \$1,500,000 is proposed for technical assistance, \$8,500,000 for construction of 12 improved water delivery systems, and \$4,000,000 for irrigation supplies.

Jordan - Maqarin Dam and Jordan Valley Irrigation System - \$50.0 mil. Loan

Continuation of program to construct the Maqarin Dam and associated irrigation facilities and electric power-generating facilities. The total cost of this multi-donor funded project is estimated at \$1.013 million. A.I.D. will provide \$50,000,000 (second to a total of four tranches) in FY 81. Elements of engineering construction and equipment which A.I.D. will finance will be identified in consultation with other financing agencies. Contractors to be selected.

CENTRALLY FUNDED PROGRAMS

Centrally Funded - Small Decentralized Hydropower - \$1.2 mil. Grant

To increase the availability of energy in rural areas by developing local hydropower resources. \$1,200,000 is proposed for feasibility studies. To be selected.

SANITARY/WATER SUPPLY

AFRICA

- Chad - Rural Sanitary Water - \$0.746 mil. Grant  
Continuation of assistance to the Government in providing potable water to rural populations through the installation of 500 small-bore tube wells. \$100,000 is proposed for a technical advisor, \$190,000 for technical service contracts, and \$276,000 for commodities.
- Niger - Rural Health Improvement - \$3.0 mil. Grant  
\$275,000 is proposed for construction of water filters, latrines and incinerators.
- Upper Volta - Rural Water Supply - \$2.7 mil. Grant  
To provide a potable rural water system to rural people of southwestern Upper Volta. \$1,704,000 is proposed for procurement of well digging equipment.
- Kenya - Community Water Systems - \$5.2 mil. Loan  
Increase central and local government ability to plan, design, implement and maintain integrated community water systems. \$5,200,000 is proposed for construction of these facilities.
- Somalia - Comprehensive Groundwater Development - \$3.2 mil. Grant  
To supply a safe source of water for the rural population. \$2,220,000 is proposed for technical assistance, and \$900,000 for procurement of casing, pipe and items required for well drilling.
- Benin - Rural Water Supply - \$0.9 mil. Grant  
\$840,000 is proposed for technical assistance, and \$50,000 for construction of warehouse and office.
- Togo - Rural Water Supply and Sanitation - \$1.5 mil. Grant  
\$315,000 is proposed for technical assistance, \$525,000 for contract drilling of wells and installation of pumps and \$600,000 for procurement of pumps, spare parts and vehicles.
- Cameroon - Mandara Mountains Water Resources - \$1.7 mil. Grant  
To increase availability of drinking water. \$600,000 is proposed for U.S. technical assistance and \$490,000 for procurement of vehicles, equipment and materials.
- Lesotho - Rural Water and Sanitation - \$2.0 mil. Grant  
To assist the Government in developing the capacity of the Ministry of Rural Development/Village Water Supply Section. \$558,000 is proposed for technical assistance, and \$1,255,000 for procurement of drilling equipment and handpumps.
- Malawi - Rural Water - \$0.74 mil. Grant  
\$700,000 is proposed for procurement of pipe, cement and handpumps.

ASIA

Philippines - Barangay Water II - \$7.5 mil. Loan

To institutionalize the capability of selected local government units to identify, plan, organize, and install cooperative water systems with their own maintenance capacity in low income rural farming communities. \$7,500,000 is proposed for construction of these systems.

Philippines - Subic-Olongapo Water - \$5.0 mil. Grant

To increase the availability of potable water to the residents of the Subic Municipality-Olongapo Water District areas in quantity sufficient to meet needs through 1988. \$5,000,000 is proposed for improvements to the existing water system.

Sri Lanka - Potable Water Sector Loan - \$10.0 mil. Loan

To develop a capability within the public and private sectors to apply appropriate technology to the design, construction and maintenance of potable water supply and drainage systems in small rural communities. \$2,000,000 is proposed for a U.S. technical assistance contract, and \$8,000,000 for construction of eight potable water and drainage systems.

NEAR EAST

Egypt - Provincial Water/Sewerage - \$46.0 mil. Grant

To improve the health and quality of life of approximately two million people living in provincial towns by constructing or expanding and improving water and sewerage systems. \$6,000,000 is proposed for A&E services and \$40,000,000 for procurement of equipment and materials. To be selected.

Egypt - Cairo Sewerage - \$35.0 mil. Grant

Continuing project to expand the capacity and coverage of the sewage collection system and provide improved sewage treatment and disposal facilities. \$2,000,000 is proposed for engineering services, and \$33,000,000 for equipment and materials. A&E services are already under contract.

Egypt - Alexandria Wastewater System Expansion - \$65.0 mil. Grant

Continuing program to rehabilitate the Alexandria sanitary sewerage system and construction of additional collection, treatment, and disposal facilities. \$7,000,000 is proposed for engineering services (already under contract), and \$58,000,000 for procurement of equipment and materials.

Yemen Arab Republic - Small Rural Water Systems - \$1.443 mil. Grant

To provide improved potable water supplies for rural areas. \$420,000 is proposed for technical assistance, \$285,000 for commodities and \$680,000 for construction supplies.

CENTRALLY FUNDED PROGRAMS

Centrally Funded - Water and Sanitation for Health - \$2.0 mil. Grant

To develop and provide technical resources to support programs for the improvement of household water supplies and sanitary facilities. \$2,000,000 is proposed for studies. To be selected.

Centrally Funded - Technology for Water and Sanitation - \$0.950 mil. Grant  
To expand the availability of appropriate, low-cost technology  
in LDC water supply and sanitation programs. \$950,000 is proposed for  
consultants and procurement/testing of water supply/sanitation  
devices, i.e. meters, well screens, incinerating toilets,  
composting toilets, water seal latrines, etc. To be selected.

TRANSPORTATION

AFRICA

- Chad - Chad Road Maintenance - \$1.0 mil. Grant  
To facilitate access to Chad's productive southern and eastern regions. \$600,000 is proposed for long-term technicians, \$166,000 for participant training and \$234,000 for commodities.
- The Gambia - Rural Roads Maintenance System - \$1.944 mil. Grant  
To improve the equipment maintenance and management systems of the Public Works Dept. \$102,000 is proposed for one long-term advisor, and \$1,829,000 for construction of a central workshop.
- Mauritania - Rural Roads Development - \$1.15 mil. Grant  
Provide access to markets for agricultural products. \$300,000 is proposed for procurement of heavy equipment and \$850,000 for construction.
- Upper Volta - Rural Roads II - \$2.1 mil. Grant  
Provide roads for farmer access and health and education services. \$636,000 is proposed for technical assistance, \$971,000 for construction equipment, materials and POL.
- Tanzania - Rural Access Roads - \$3.9 mil. Grant  
\$2,425,000 is proposed for procurement of road construction equipment.
- Botswana - Transport Sector Support Phase II - \$3.95 mil. Grant  
\$1,140,000 is proposed for technical assistance and \$2,310,000 for procurement of road construction equipment and materials.
- Lesotho - Rural Access Roads and Trails - \$2.33 mil. Grant  
\$360,000 is proposed for technical assistance, and \$1,000,000 for procurement of construction and maintenance equipment and tools.
- Lesotho - Southern Perimeter Road - \$8.0 mil. Grant  
\$8,000,000 is proposed as additional to a construction contract scheduled to let to bid in Summer of 1980.
- Southern Africa Regional - Transport and Storage Development - \$22.0 mil. Grant  
Increase existing transportation infrastructure in the region to improve the supply, distribution, and production of food and other commodities. \$21,800,000 is proposed for the construction of roads and storage and procurement of related materials.
- Africa Regional-Tanzania/Rwanda/Burundi Transport Links - \$5.0 mil. Grant  
To provide more dependable and lower cost transportation between Rwanda and Burundi and Indian Ocean ports in order to improve access to imported goods and services and agricultural markets. \$5,000,000 is proposed for engineering, training and construction services to be agreed to.

LATIN AMERICA AND THE CARIBBEAN

Haiti - Road Maintenance II - \$0.745 mil. Grant  
\$300,000 is proposed for advisors (already under contract)  
and \$200,000 for construction.

ASIA

Philippines - Botolan - Bamban Highway - \$8.0 mil. Grant  
To improve the economic and physical links between Central  
Luzon and the coastal provinces of Western Luzon. \$8,000,000  
is proposed for engineering/construction of 75 kilometers of  
all-weather road.

INDUSTRY

NEAR EAST

- Egypt - Sinai Manganese - \$30.0 mil. Grant  
To construct a ferromanganese ore processing plant designed to process raw materials for industrial use. \$3,000,000 is proposed for A&E services, \$500,000 for training, and \$26,500,000 for procurement of equipment.
- Egypt - Industrial Free Zones - \$5.0 mil. Grant  
To assist in the establishment of industrial free zones to attract foreign and domestic private capital investments. \$500,000 is proposed for feasibility studies and \$4,000,000 for equipment and materials.
- Egypt - Industrial Production II - \$25.0 mil. Loan  
To improve industrial planning, product quality and output, and reduce environmentally harmful disposal of industrial waste. \$5,000,000 is proposed for technical assistance, \$4,000,000 for A&E services, and \$16,000,000 for subproject equipment.

POWER/RURAL ELECTRIFICATION

ASIA

Bangladesh - Rural Electrification II - \$20.0 mil. Grant

To provide electrical distribution service to rural consumers, potential rural employers, and community facilities. \$9,200,000 is proposed for construction commodities, \$900,000 for support commodities, \$1,900,000 for construction equipment and \$5,000,000 for technical assistance. Contractors to be selected.

Indonesia - Rural Electrification I - \$5.0 mil. Grant

Continuation of program to make available electricity at an affordable price to area residents and small commercial and industrial users. \$4,800,000 is proposed for technical assistance.

NEAR EAST

Egypt - Provincial Electrification - \$40.0 mil. Grant

To provide electrical power to homes, farms, small scale industries and rural businesses. \$3,000,000 is proposed for engineering services and \$37,000,000 for equipment and materials. To be selected.

GENERAL - BUILDINGS

AFRICA

- Chad - Comprehensive Human Resources - \$0.4 mil. Grant  
\$86,000 is proposed for construction of workshops.
- Chad - Crop Production Research, Seed Multiplication and Grain Marketing -  
\$1.7 mil. Grant  
\$268,000 is proposed for construction of seed testing labs and  
\$87,000 for repair of buildings.
- Mali - Operations Mils - Phase II - \$1.5 mil. Grant  
To increase agricultural production. \$153,000 is proposed for  
technical assistance, \$405,000 for roads and \$230,000 for  
construction of warehouses, houses and wells.
- Mali - Rural Works - \$0.6 mil. Grant  
To assist villagers establish rural community support systems.  
\$85,000 is proposed for construction of wells and roads.
- Mali - Operation Haute Vallee - \$3.73 mil. Grant  
Continuation of a rural development and food production program  
in the Haute Vallee Region. \$500,000 is proposed for road  
construction, \$275,000 for polder rehab. and \$100,000 for field  
offices.
- Mali - Livestock Sector II - \$3.8 mil. Grant  
To improve country's livestock industry. \$682,000 is proposed  
for construction of offices, labs, training facilities and  
range improvements.
- Niger - Niger Cereals Research - \$1.3 mil. Grant  
\$340,000 is proposed for construction of 1 substation and  
2 warehouses.
- Niger - Agriculture Production Support - \$2.0 mil. Grant  
\$725,000 is proposed for construction of 2 office buildings and  
10 warehouses.
- Niger - National Cooperative Training Center - \$1.128 mil. Grant  
\$589,000 is proposed for construction of a training complex.
- Niger - Niamey Department Development - Phase II - \$2.0 mil. Grant  
\$725,000 is proposed for construction of service center buildings.
- Senegal - Casamance Regional Development - \$3.5 mil. Grant  
\$430,000 is proposed for construction of offices, warehouses and  
testing laboratories.
- Senegal - SAED Training - \$1.072 mil. Grant  
\$162,000 is proposed for construction of training and maintenance  
centers.

- Senegal - SODESP Livestock Production - \$1.3 mil. Grant  
\$200,000 is proposed for construction of veterinary centers and corrals.
- Senegal - Senegal Cereals Production - Phase II - \$1.7 mil. Grant  
\$200,000 is proposed for construction of an extension center, headquarters and housing facilities.
- Senegal - Renewable Energy - \$1.0 mil. Grant  
\$245,000 is proposed for construction of an office and documentation center.
- Upper Volta - Agricultural Human Resources Development - \$1.9 mil. Grant  
\$600,000 is proposed for construction of school buildings.
- Upper Volta - Forestry Education and Development - \$1.5 mil. Grant  
\$124,000 is proposed for construction of 4 school buildings and 4 forestry buildings.
- Upper Volta - Eastern Region Food Production - \$2.0 mil. Grant  
\$377,000 is proposed for construction of warehouses and grain storage facilities.
- Sahel Regional - OMVS Agronomic Research II - \$1.5 mil. Grant  
\$387,000 is proposed for construction of lab facilities and technician housing.
- Sahel Regional-OMVS Integrated Development - \$8.0 mil. Grant  
\$2,000,000 is proposed for construction of rural roads, schools, health units and land clearing, and \$1,500,000 for procurement of construction materials and equipment and pumps.
- Sahel Regional - Planning, Management and Research - \$3.859 mil. Grant  
\$1,150,000 is proposed for studies in transport, energy, river basin development, and rural water supplies.
- Sudan - Blue Nile Agricultural Development - \$2.5 mil. Grant  
\$860,000 is proposed for construction of training facilities and housing.
- Sudan - Southern Manpower Development - \$2.4 mil. Grant  
\$200,000 is proposed for construction of training facilities.
- Sudan - Southern Rural Infrastructure - Phase II - \$10.0 mil. Grant  
\$5,530,000 is proposed for construction of housing, maintenance center and roads.
- Sudan - Health Sector Support - \$3.0 mil. Grant  
\$1,700,000 is proposed for construction of warehouses, training centers and dispensaries.
- Tanzania - Seed Multiplication and Distribution - \$1.195 mil. Grant  
\$239,000 is proposed for construction of 2 seed farms.

- Tanzania - Farming Systems Research - \$5.31 mil. Grant  
\$2,100,000 is proposed for construction of research laboratories and equipment.
- Tanzania - Coordinated Rural Services - \$1.0 mil. Grant  
\$300,000 is proposed for construction of village service centers.
- Tanzania - Public Health Nursing School - \$1.05 mil. Grant  
\$250,000 is proposed for renovation of nursing school.
- Tanzania - Village Environment Improvement - \$0.5 mil. Grant  
\$250,000 is proposed for construction of wells, storage tanks and windmills.
- Uganda - Rural Health Delivery - \$2.5 mil. Grant  
\$940,000 is proposed for construction of dispensaries and training centers.
- Sierra Leone - Adaptive Crop Research and Extension - \$1.918 mil. Grant  
\$300,000 is proposed for construction of a soils lab and research center.
- Burundi - Basic Food Crops - \$1.05 mil. Grant  
\$249,000 is proposed for construction of farm buildings.
- Burundi - Land Use and Resource Analysis - \$1.05 mil. Grant  
\$150,000 is proposed for construction of a building.
- Cameroon - Mandara Area Development - \$2.0 mil. Grant  
\$400,000 is proposed for construction of rural roads, training center, housing, offices.
- Cameroon - Medical System for Cameroon - \$2.7 mil. Grant  
\$410,000 is proposed for construction of a training center and a vehicle maintenance center.
- Cameroon - Support to Basic Education - \$2.5 mil. Grant  
\$1,410,000 is proposed for constructing on extension to a teacher training school, and self-help construction of 360 classrooms.
- Rwanda - Agricultural Extension - \$2.044 mil. Grant  
\$1,215,000 is proposed for construction of 15 Integrated Rural Artisan Training Centers.
- Rwanda - Fish Culture - \$1.165 mil. Grant  
\$480,000 is proposed for construction of 86 co-op ponds.
- Rwanda - Rural Health/Family Planning - \$2.64 mil. Grant  
\$1,005,000 is proposed for construction of rural training/delivery centers.
- Botswana - Agricultural Planning - \$1.661 mil. Grant  
\$172,000 is proposed for construction of a technical library.

- Lesotho - Produce Marketing Corporation - \$0.905 mil. Grant  
\$215,000 is proposed for construction of an office and workshop.
- Lesotho - Land Conservation and Range Development - \$2.25 mil. Grant  
\$502,000 is proposed for construction of field housing and regional offices.
- Lesotho - National University of Lesotho - \$1.0 mil. Grant  
\$600,000 is proposed for construction of classrooms and faculty houses.
- Malawi - Malawi Polytechnic - \$3.0 mil. Grant  
\$2,000,000 is proposed for construction of a library, dormitory and science building.
- Mozambique - Agricultural Production and Marketing - \$9.0 mil. Grant  
\$2,700,000 is proposed for construction of storage facilities.
- Swaziland - Cropping Systems Research and Extension Training - \$1.988 mil. Grant  
\$400,000 is proposed for construction of a dormitory, laboratory and classroom.
- Southern Africa Regional - Technical and Managerial Training - \$3.5 mil. Grant  
\$2,200,000 is proposed for construction of school buildings in Botswana and Swaziland.

LATIN AMERICA AND THE CARIBBEAN

- Caribbean Regional - Caribbean Education Development - \$2.7 mil. Grant  
\$1,100,000 is proposed for school planning, maintenance and construction.
- Caribbean Regional - Basic Human Needs/Employment Sector - \$2.5 mil. Grant  
\$2,500,000 is proposed for construction of schools.
- Bolivia - Agricultural Extension Communications - \$3.5 mil. Loan,  
\$0.4 mil. Grant  
\$2,000,000 is proposed for construction of buildings.
- El Salvador - Integrated Rural/Urban Health - \$4.0 mil. Loan, \$0.5 mil. Grant  
\$2,000,000 is proposed for construction of buildings.
- Haiti - Rural Health Delivery System - \$1.4 mil. Grant  
\$950,000 is proposed for construction of buildings.
- Jamaica - Agricultural Research Education and Extension - \$3.0 mil. Loan  
\$750,000 is proposed for construction of buildings.
- Nicaragua - Education Sector Program - \$7.0 mil. Loan  
\$1,900,000 is proposed for construction of buildings.
- Panama - Rural Cooperative Enterprises - \$3.4 mil. Loan  
\$1,250,000 is proposed for construction of buildings.

ASIA

Bangladesh - Fertilizer Distribution Improvement - \$50.0 mil. Grant  
\$12,000,000 is proposed for warehouse construction.

India - Integrated Rural Health and Population - \$9.4 mil. Grant  
\$3,500,000 is proposed for construction of subcenters.

Indonesia - Rural Work II - \$1.5 mil. Grant, \$6.0 mil. Loan  
To assist Government with national rural works program.  
\$1,500,000 is proposed for technical assistance, and \$6,000,000  
for subproject financing. Technical assistance contractor  
already selected.

Indonesia - Small Scale Fisheries Development - \$2.0 mil. Grant  
\$265,000 is proposed for construction of an ice plant with  
three floating fish cages, research stations and a fish hatchery.

Indonesia - Applied Crop Research - \$11.0 mil. Loan  
\$3,740,000 is proposed for construction of research facilities.

Indonesia - Secondary Crop Development - \$2.0 mil. Grant, \$7.0 mil. Loan  
\$7,000,000 is proposed for construction of seed centers, drying  
and storage facilities.

Nepal - Institute of Agriculture and Animal Sciences - \$2.5 mil. Grant  
\$2,000,000 is proposed for construction of campus facilities.

Nepal - Rural Area Development - Rapati Zone - \$5.3 mil. Grant  
\$1,939,000 is proposed for construction of local roads and  
social services centers.

Nepal - Resource Conservation & Utilization, Title XII - \$3.3 mil. Grant  
\$1,133,000 is proposed for construction of various rural  
infrastructure projects.

Philippines - Agriculture Research II - \$5.0 mil. Loan  
\$2,000,000 is proposed for construction of housing, laboratories,  
access roads and greenhouses.

Philippines - Project Design - \$3.0 mil. Grant  
\$3,000,000 is proposed for surveys, feasibility studies and  
pilot activities for such projects as water supply, cottage  
industries, roads, flood control, etc.

Philippines - Clark Area Development - \$14.0 mil. Grant  
\$10,550,000 is proposed for engineering/construction of various  
infrastructure in the area.

Sri Lanka - Dryland Agricultural Production - \$4.0 mil. Loan  
\$1,600,000 is proposed for construction of seed production and  
storage facilities.

Sri Lanka - Dryland Agricultural Marketing - \$1.750 mil. Loan, \$0.5 mil. Grant

\$1,000,000 is proposed for construction of storage facilities.

Thailand - Provincial Planning and Development - \$1.8 mil. Grant, \$7.2 mil. Loan

\$700,000 is proposed for technical assistance, and \$7,200,000 for construction of various small rural development projects.

Asia Regional - Program Development and Support - \$4.6 mil. Grant

\$4,600,000 is proposed for studies to include, water resources, energy and rural water development.

#### NEAR EAST

Egypt - Urban Low Cost Health Delivery - \$6.0 mil. Grant

\$4,400,000 is proposed for construction and renovation of urban health facilities.

Egypt - Major Cereals (Field Crops) - \$15.0 mil. Grant

\$3,100,000 is proposed for construction of the major cereals institute.

Egypt - Grain/Tallow, Oil, Fats Storage III - \$21.0 mil. Grant

\$2,500,000 is proposed for engineering services and \$18,500,000 for equipment and materials for a 50,000 metric ton vertical bulk storage facility in Safaga and permanent bagging facilities at the Port of Suez as well as inland bulk storage facilities.

Egypt - Technical Services and Feasibility Studies - \$6.0 mil. Grant

Studies on shelter, water, sewerage and employment and other development activities. \$6,000,000 is proposed for feasibility studies. Various contractors will be selected.

Egypt - Development of School Libraries - \$3.0 mil. Grant

\$1,000,000 is proposed for construction/renovation.

Egypt - Provincial Cities Development - \$20.0 mil. Grant

\$2,000,000 is proposed for technical assistance and engineering services.

Syria - Technical Services and Feasibility Studies IV - \$1.5 mil. Grant

\$1,500,000 is proposed for studies, some of which will involve engineering services.

ENERGY

AFRICA

Mali - Renewable Energy - \$1.12 mil. Grant

To demonstrate feasibility of small scale renewable energy technologies for rural development. \$100,000 is proposed to continue funding technical assistance under PASA with U.S. Department of Energy, \$625,000 for solar pumps and lab equipment.

Mauritania - Alternative Energy Program - \$0.25 mil. Grant

Demonstrate small-scale renewable energy technologies. \$132,000 is proposed for technical assistance and \$118,000 for energy related commodities.

Sudan - Alternative Energy Development - \$1.0 mil. Grant

Strengthen Institute for Energy Research in carrying out research and disseminating information concerning alternative energy sources. \$420,000 is proposed for technical assistance and \$190,000 for construction of solar laboratory and offices.

Botswana - Renewable Energy Technology - \$0.6 mil. Grant

To foster development of renewable energy through self-help, entrepreneurial and government programs. \$480,000 is proposed for technical assistance.

Africa Regional - Energy Initiatives for Africa - \$7.4 mil. Grant

To develop feasible options to Africa's present dependence on fossil fuels, improve availability of firewood and strengthen institutional capacity. \$6,960,000 is proposed for surveys, studies, and 5 pilot projects.

LATIN AMERICA AND THE CARIBBEAN

Caribbean Regional - Alternative Energy Systems II - \$3.8 mil. Loan

To stimulate private investment in renewable energy systems. \$3,800,000 is proposed for credit funds.

Regional - Energy Resources Development - \$0.8 mil. Grant

To assist selected countries undertake energy sector assessments, surveys, and feasibility studies leading to national energy plans. \$200,000 is proposed for assessments and \$480,000 for special studies.

Bolivia - Alternative Energy Management - \$1.0 mil. Grant

To improve Government's capability to identify, analyze, develop and manage renewable energy sources and applications. \$300,000 is proposed for technical assistance, \$400,000 for construction of demonstration projects, and \$100,000 for feasibility studies.

Dominican Republic - Energy Conservation and Resources Development - \$5.0 mil. Grant

To reduce dependence on imported fuels. \$1,250,000 is proposed for U.S. consultants, and \$3,260,000 for commodities and equipment.

- Ecuador - Alternative Energy Sources - \$1.9 mil. loan, \$0.2 mil. Grant  
To assist institutions in developing their capacity to identify and adapt nonconventional energy sources. \$650,000 is proposed for technical assistance and \$500,000 for commodities.
- Jamaica - Science and Technology - Energy - \$3.7 mil. Loan, \$0.2 mil. Grant  
To assist Government develop economically and ecologically viable energy conservation programs and alternative energy sources. \$1,250,000 is proposed for technical assistance, \$1,400,000 for commodities and \$800,000 for studies and seminars.
- Panama - Alternative Energy Sources II - \$2.0 mil. Loan  
To provide energy to marginal and isolated areas of Panama. \$1,000,000 is proposed for micro-hydroelectric equipment, \$600,000 for bio-mass waste utilization equipment and \$300,000 for feasibility studies.
- Peru - Rural Energy Alternatives - \$3.192 mil. Grant  
To assist Government in analyzing energy alternatives and conduct demonstrations of alternative energy systems. \$570,000 is proposed for technical assistance and \$2,240,000 for prototype facility construction.

#### ASIA

- Sri Lanka - Alternative Rural Energy Technologies - \$2.0 mil. Grant  
To develop viable alternative rural energy technologies so as to reduce demand on scarce conventional energy sources. \$800,000 is proposed for a technical assistance contract, and \$800,000 for commodities.
- Asia Regional - Energy Development - \$2.0 mil. Grant  
To assist recipient countries in Asia in identifying and implementing projects for the use of alternative energy resources. \$1,000,000 is proposed for consultants and surveys, and \$600,000 for construction of Energy Development and Support Centers.
- Asia Regional - Energy Cooperation in Development-ASEAN - \$1.0 mil. Grant  
To support ASEAN efforts at cooperation in renewable and non-conventional energy sources. \$1,000,000 is proposed for surveys and evaluations.

#### NEAR EAST

- Egypt - Renewable Energy - \$8.0 mil. Grant  
To develop cost-effective renewable energy resources to supplement and/or replace fossil fuels. \$3,500,000 is proposed for energy studies, and \$4,000,000 for commodities.
- Morocco - Renewable Energy Development - \$1.3 mil. Grant  
To create and institutionalize an applied research and demonstration capability in renewable energy development. \$95,000 is proposed for technical assistance and \$955,000 for energy related commodities.

Tunisia - Renewable Energy (II) - \$1.3 mil. Grant

To assist the Government to strengthen its capacity to select, develop, and install energy systems based on renewable, non-fossil sources. \$520,000 is proposed for technical assistance.

OTHER PROJECTS AND PROGRAMS WHERE ENGINEERING  
AND CONSTRUCTION SERVICES MAY BE REQUIRED

Appropriate Technology

A.I.D. encouraged the establishment, in December, 1976, of a non-profit, tax-exempt corporation, A.T. International, to select and finance activities for the development and dissemination of appropriate technologies in developing countries. \$4.1 mil. is proposed as a support grant to A.T. International in FY 1981 to continue and expand its activities. Engineering contracts are possible under this project to develop appropriate technology in specific areas.

Reimbursable Development Programs

This program, begun in FY 1975, is to work with friendly countries to identify and design country-financed development projects. \$2.0 mil. is proposed for FY 1981. The program has resulted in countries purchasing development-oriented U.S. technology. Engineering firms are involved in a wide range of fields.

International Disaster Assistance

Every year, disastrous events--floods, earthquakes, tsunamis, droughts, storms, and more recently manmade catastrophes--exact a heavy human toll. A.I.D. requests for 1981 \$25 million to finance the international disaster assistance account. Primarily, the funds will be used for emergency relief and rehabilitation and about one fifth will be used for disaster preparedness activities. Based on past experience, between 20 and 30 major disasters will warrant U.S. assistance. Although most of the work under this project will be assigned to U.S. government agencies, it is likely that some portions of the work will go to private engineering firms.

American Schools and Hospitals Abroad (ASHA)

The ASHA program provides grants to private U.S. non-profit organizations that have founded or sponsored American schools and hospitals abroad to assist them in demonstrating American ideas and practices in education and medicine. The FY 81 proposed funding of \$15.0 million will be directed towards helping those institutions having special requirements, e.g. new physical facilities, renovation of existing facilities, special medical and training programs and the procurement of teaching, medical and scientific equipment. Although engineering and construction contracts seldom exceed \$500,000 and are often remotely located, nevertheless, they are open to U.S. firms if interested. Projects which A.I.D. believes could be of interest to U.S. firms are publicized in the Commerce Business Daily.