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

INFORMATION PACKET
FOR
ARCHITECT-ENGINEER FIRMS

September 1978

FOREWORD

The United States through the Agency for International Development (AID), Department of State, 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 Security Supporting Assistance. The Development Assistance Program (\$1,962.4 million proposed for FY 1979) concentrates on three major functional categories: Food, Nutrition and Rural Development, Population Planning and Health, and Education and Human Resources Development. Architect-engineer services result from projects which are supportive of these major categories and are often part of larger projects involving other disciplines. In addition, other functional categories under Development Assistance which require architect-engineer services are: Selected Development Problems (includes technical assistance, energy and research); Sahel Development Program; and American Schools and Hospitals Abroad.

Security Supporting Assistance (SSA) is designed to promote economic and political stability and may take the form of capital projects among other things. \$1,854.4 million is proposed for FY 1979. More than 90 percent of these funds will go to four countries--Egypt, Israel, Jordan, and Syria--in support of the U.S. diplomatic effort to secure peace in the Middle East. Most of the rest will go to countries in southern Africa to facilitate a peaceful transition to majority rule. Some major architect-engineer and construction contractor opportunities are expected under SSA funds in Egypt, Jordan, and Syria.

Based on the above, architect-engineer opportunities will continue to exist throughout AID's Geographic Regions (Africa, Latin America, Asia, 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 AID 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, Department of State, 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 world-wide 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 world-wide, 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 Business in Washington maintains an extensive file, the Contractor's 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. 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 interest expressions 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 Business, SER/CM Phone: (703) 235-9155
Agency for International Development
Washington, D.C. 20523

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

Forms Available

Architect-Engineer Questionnaire
Form No. SF 254

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

Management Consultant Questionnaire
Form No. AID 1420-6

Construction Contractor Questionnaire
Form No. AID 1420-7

Urban and Regional Planner Consultant Questionnaire
Form No. AID 1420-19

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.

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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.

FY 1979 PROGRAM

AGENCY FOR INTERNATIONAL DEVELOPMENT

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

This listing was obtained from A.I.D.'s FY 1979 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 RESOURCESAFRICA**Niger - Niger River Development Planning - \$340,000 Grant**

A detailed diagnostic study of the basin for the elaboration of a five year program is scheduled for completion shortly. A.I.D. plans to fund complementary planning studies on a continuing basis.

Cape Verde - Tarraful Water Resources - \$700,000 Grant

Continuation of a water exploration program on 600 hectares of land in the Tarrafar region of Sao Tiago Island, and establishment of the foundation for an irrigation program. A.I.D. funds will be used to finance technical assistance, irrigation systems, and trial farms.

Cape Verde - Watershed Management/Soil Conservation - \$700,000 Grant

Continuing program to construct check dams, terraces, water reservoirs, etc. on four islands. A.I.D. funds proposed for short term technicians (\$64,000), land clearing and construction equipment (\$336,000), and supervisory, labor and materials (\$300,000).

Chad - Lake Chad Irrigated Agriculture - \$1.0 mil. Grant

Continue research activities begun in FY 78 in preparation for actual construction of a polder in Phase II. \$130,000 proposed for U.S. consultants, \$640,000 for irrigation and laboratory equipment and \$200,000 for local construction.

Mali - Operation Haute Vallee - \$1.65 mil. Grant

To continue assistance on a regional rural development program to increase food production. A.I.D. funding of \$1.65 mil. is proposed for agricultural and irrigation advisors and U.S. training in water management plus commodity procurement.

Mauritania - Rural Land Reclamation - \$2.0 mil. Grant

Assist the Government of Mali in carrying out a water and soils survey, procure commodities and construct four dams. \$427,000 is proposed long-term advisors and \$1.0 for construction equipment.

Senegal - Small Irrigated Perimeters - \$500,000 Grant

To acquaint farmers with managed irrigation crop production. \$120,000 is proposed for technical advisory services, \$150,000 for irrigation commodities and \$230,000 for construction of irrigation works.

Senegal - Casamance Regional Development - \$3.0 mil. Grant
 To increase food production in the Casamance region. \$966,000 is proposed for construction of pilot salt water intrusion dikes and two research stations including irrigation works.

ASIA

Bangladesh - Rural Irrigation Works - \$2.0 mil. Grant
 To expand irrigated crop area by 36,000 acres by assisting labor intensive farm-level irrigation construction programs. \$700,000 is proposed for an engineering consultant study and \$1.3 mil. for force account construction of irrigation works.

Bangladesh - Small Scale Irrigation II - \$7.0 mil. Grant
 To expand handpump irrigation. \$4.4 mil. is proposed for procurement of equipment, \$2.4 mil. for local installation costs and \$120,000 for one engineering consultant advisor.

Indonesia - Citanduy River Basin Development II - \$16.0 mil. Loan, \$500,000 Grant
 To increase productivity and income of small farmers through flood prevention, upper watershed management, and erosion and siltation control, \$500,000 is proposed for technical assistance, \$2.2 mil. for engineering studies, and \$13.8 mil. for construction and equipment.

Nepal - Resource Conservation and Utilization - Phase I - \$2.5 mil. Grant
 To develop solutions to human related environmental degradation problems in several small watershed areas. \$210,000 is proposed for technical assistance and \$680,000 for construction materials.

Pakistan - On-Farm Water Management - \$12.0 mil Loan, \$750,000 Grant
 To establish public and private sector capability to plan and deliver on-farm water management services (improvement of irrigation watercourses, precise leveling of farmland, and improvement of crop and water management practices). \$8.0 mil. is proposed for land leveling through local construction, \$4.0 mil. for watercourse lining through local construction, and \$680,000 for technical assistance.

Philippines - Bicol Integrated Development III (Rinconada) - \$2.5 mil. Loan
 To design and construct flood control systems, irrigation and drainage systems and access roads. \$2.5 mil. is proposed for engineering design services.

Philippines - Small Scale Irrigation - \$5.0 mil. Loan, \$350,000 Grant
 To train and organize small farmers to operate and maintain self-owned irrigation systems. \$300,000 is proposed for technical advisory services and \$5.3 mil. for local construction and installation of irrigation works.

Sri Lanka - Amparai Irrigation and Area Development - \$7.0 mil Loan
 To increase agricultural production along the Maha Oya River in Amparai District. \$4.0 mil. is proposed for irrigation equipment, and \$1.0 mil. for local construction of irrigation works.

LATIN AMERICA

Caribbean Region - Small Farmer Commodity Systems - \$225,000 Grant
 A.I.D. funds to be channeled through the Caribbean Development Bank and utilized for technical assistance and training.

El Salvador - Small Farmer Development - \$4.7 mil. Loan
 \$1.0 mil. is proposed for construction and improvement of village level irrigation systems and \$800,000 for technical assistance and training in small scale irrigation.

Haiti - Integrated Agricultural Development - \$1.4 mil. Loan
 \$200,000 is proposed for technical advisory services in irrigation.

Peru - On-Farm Water Management - \$191,000 Grant
 To develop and demonstrate alternative management systems for the improvement of small farmer irrigation practices. \$175,000 is proposed for technical advisors.

NEAR EAST

Afghanistan - Central Helmand Drainage Phase II - \$6.3 mil Grant
 Continuation of A I.D. funded program to reduce salinity and waterlogging in 130 square kilometers of farm land. \$987,000 is proposed for technical advisors and consultant services, \$5.13 mil. for reimbursement of construction costs, and \$217,000 for participant training.

Yemen - Water Resources Planning and Management - \$935,000 Grant
 \$405,000 is proposed for two hydrology advisors, \$93,000 for participant training, \$360,000 for commodities (well logging equipment, stream gages, pumps, etc.) and \$77,000 for local operating costs.

- Jordan - Water Management Technology - \$500,000 Grant**
 To upgrade small farmers agricultural productivity in the Jordan Valley through more efficient water utilization. \$390,000 is proposed for engineering consultant services, \$47,000 for commodities, \$55,000 for participant training and \$8,000 local support.
- Syria - Akkar Plain II - \$14.5 mil. Loan, \$0.5 mil. Grant**
 To increase agricultural production in the Akkar Plain by providing irrigation and drainage facilities, adaptive research and extension services, and other supporting infrastructure. \$1.0 mil. is proposed for design and supervision of construction contracts, \$500,000 for technical assistance and training and \$13.5 mil. for construction contracts.
- Jordan - Maqarin Dam and Jordan Valley Irrigation System - \$50.0 mil. Loan**
 To construct the Maqarin Dam and associated irrigation and electric power-generating facilities to permit maximum utilization of Yarmouk River water resources. Total project cost is estimated at \$510 mil., \$50.0 mil. A.I.D. contribution is proposed for engineering, construction, and equipment
- Egypt - Applied Science and Technology Research, \$4.0 mil. Grant**
 A research study involving water resources and silt loss is proposed under this project which includes a multitude of various studies.
- Egypt - Water Use and Management - \$1.5 mil. Grant**
 A consortium headed by Colorado State University is developing and demonstrating improved irrigation water management and associated on-farm cultural practices. An A&E contract is possible to assist in the work.
- Egypt - Agribusiness Development - \$25.0 mil. Grant**
 This grant is proposed to procure equipment and materials, some of which will include irrigation equipment.

SANITARY/WATER SUPPLYAFRICA

- Cape Verde - Sal Desalination/Power - \$300,000 Grant**
AID will continue funding to increase the availability of fresh water and electric power to Sal Island. \$200,000 proposed for additional short term consultants and \$100,000 proposed for participant training.
- Chad - Rural Sanitary Water - \$669,000 Grant**
To assist the Government of Chad in providing potable water to rural populations. \$70,000 proposed for advisory technicians, \$413,000 for vehicles and drilling rigs and \$186,000 for construction and operational costs.
- Mauritania - Renewable Resource Management - \$1.3 mil. Grant**
To survey renewable resources and implement pilot projects. \$350,000 is proposed for well-drilling pilot projects.
- Upper Volta - Rural Water Supply - \$3.5 mil. Grant**
\$350,000 is proposed for technical advisory services, \$160,000 for consultant studies, and \$2.7 mil. for drilling equipment and construction of wells.
- Lesotho - Rural Water Supply - \$1.2 mil. Grant**
\$440,000 is proposed for technical advisory services and \$630,000 for construction of water supply systems.
- Benin - Rural Water Supply - \$1.0 mil. Grant**
\$175,000 is proposed for technical advisory services, \$700,000 for procurement of well drilling equipment and \$125,000 for local operating expenses.
- Tanzania - Arusha Village Development - \$3.4 mil. Grant**
\$370,000 is proposed for construction of village wells.

ASIA

- Pakistan - Village Water Systems - \$7.5 mil. Loan**
To increase availability of convenient water supplies in rural areas for drinking, washing and bathing. \$7.2 mil. is proposed for local construction of water systems and drainage systems.
- Philippines - Local Water Development II - \$500,000 Grant**
To continue institutional development of national and local water utilities. \$500,000 is proposed for technical advisory services.

LATIN AMERICA**Caribbean Regional - Community Water Supply - \$1.0 mil. Grant
and Sanitation**

To improve health condition in the Eastern Caribbean through the extension and improved maintenance of potable water supply and sanitary sewage disposal systems. \$350,000 is proposed for training and technical assistance, \$300,000 for studies and \$350,000 for pilot projects.

Bolivia - Rural Sanitation - \$45,000 Grant

Continued services of one advisor in sanitation and water installations.

**Guatemala - Rural Health and Nutrition - \$4.4 mil. Loan
System Improvement**

\$3.25 mil. is proposed to finance construction costs for 200 small water systems at approximately \$15,000 per system and 25,000 latrines at \$10 each.

NEAR EAST

\$1.4 mil. Grant

Tunisia - Central Tunisia Rural Development - \$3.6 mil. Loan
\$1.8 mil. is proposed for construction costs and materials for potable water systems.

Yemen - Small Rural Water Projects - \$1.5 mil. Grant
Develop potable water in rural villages. \$320,000 is proposed for technical advisors, \$968,000 for construction commodities and the rest for training, vehicles and local costs.

Jordan - Amman Water Distribution and Sewage Collection Systems - \$18.0 mil Loan
To improve and expand Amman's water distribution and sewage collection systems \$7.2 mil is proposed for commodities (pumps, pipes, valves, etc.) and \$10.8 mil. for construction contracts

Syria - Provincial Water Supply - \$12.4 mil Loan
To expand safe drinking water supplies \$3.0 mil. is proposed for U.S. contract advisors and \$9.4 mil. for commodities (pipe, pumps, etc.).

Egypt - Alexandria Sewage II - \$40.0 mil Grant
Involves rehabilitation and construction of collection, treatment and disposal facilities \$4.0 mil. is proposed

for engineering services and \$36.0 mil. for equipment/
materials.

Egypt - Cairo Water Supply II - \$10.0 mil. Grant
Improve and expand distribution of potable water in Cairo.
A.I.D. funds will finance the imported materials and cer-
tain design assistance.

Egypt - Cairo Sewage II - \$18 mil. Grant
Expand sewage collection system's capacity and coverage,
and provide improved sewage treatment and disposal fac-
ilities. \$2.0 mil. is proposed for engineering services
and \$16.0 mil. for equipment and materials.

TRANSPORTATIONAFRICA

- Sahel Regional - Regional Rural Roads - \$8.0 mil. Grant**
 Maintenance and reconstruction of the existing road system in the Sahelian countries through joint efforts with other donors in the club du Sahel. Project includes \$7.2 mil. for equipment purchases, \$200,000 for fuel oil, and \$600,000 for engineering planning studies and advisory services.
- Botswana - Transport Sector - \$11.0 mil. Grant**
 \$1.36 mil. is proposed for technical advisors to assist Botswana acquire a basic transportation service.
- Ethiopia - Rural Roads - \$6 1 mil. Grant**
 Establish a capability within the Government to construct low-cost minimum standard rural roads \$472,000 is proposed for technical advisory services, \$144,000 for participant training, \$4 7 mil for procurement of equipment and spare parts and \$783,000 for local operating expenses in road construction
- Tanzania - Rural Access Roads - \$2.7 mil. Grant**
 Purpose to establish a force account construction and maintenance capability within the Government. \$420,000 is proposed for technical advisory services and \$2.3 mil. for procurement of construction equipment.
- Tanzania - Arusha Village Development - \$3.4 mil. Grant**
 \$1.3 mil. is proposed for procurement of construction equipment and operating costs.

ASIA

- Bangladesh - Rural Roads - \$10 0 mil. Grant**
 To construct and improve rural roads which link small farms to markets and to government and private services in selected project areas \$1.0 mil. is proposed for consultant advisory services, and \$ 9.0 mil. for local construction costs.
- Pakistan - Rural Roads II - \$21 7 mil. Loan**
 Provide all weather access roads into rural agricultural areas. \$19.7 mil. is proposed for design and construction of rural roads, \$1.0 mil. for procurement of commodities, and \$1.0 mil. for advisors.

Philippines - Rural Roads Project II - \$7.5 mil. Loan
 Provide greater access to rural areas. A continuation of an A.I.D. funded project. \$7.5 mil. is proposed for local construction costs.

LATIN AMERICA

Guyana - Rural Roads - \$600,000 Grant
 To continue funding to strengthen and expand the Ministry of Works and Transport to maintain and construct rural roads. \$530,000 is proposed for technical advisory services and \$70,000 for training.

Haiti - Road Maintenance II - \$600,000 Grant
 Continuation of A.I.D. funded program to expand and strengthen the Government's road maintenance capability. \$115,000 is proposed for facility construction, \$270,000 for procurement of equipment, and \$160,000 for technical advisory services.

Honduras - Rural Trails - \$100,000 Grant
 Construction of jeep trails by labor intensive methods. \$80,000 is proposed for materials and \$20,000 for technical advisory services.

Jamaica - Agricultural Sector Loan - \$16.0 mil. Loan
 \$2.0 mil. is proposed for road construction equipment and \$2.5 mil. for local road construction.

Panama - Access Roads - \$10 0 mil Loan
 To develop an all-weather access road network that will make vital services more accessible to small farmers. \$250,000 is proposed for technical advisors, \$150 for training and \$9.6 mil for road construction costs.

NEAR EAST

Afghanistan - Rural Development - \$1.6 mil. Grant
 \$1.3 mil. is proposed for reimbursement of roads and bridges; also included are irrigation works.

Egypt - Suez Canal Port Development - \$20.0 Grant
 To expand and improve port facilities near Port Said and Suez City. \$2.0 mil. is proposed for engineering and design, \$1.0 mil. for training and \$17.0 mil. for procurement of construction material and port equipment.

GENERALAFRICA

- Africa Regional - Pre-investment Studies - \$765,000 Grant**
A.I.D. will continue to provide funds to the African Development Bank to finance pre-investment studies. Projects will be advertised in the Commerce Business Daily and are open to U.S. firms only.
- Cape Verde - Basic Rural Health Services - \$500,000 Grant**
Project involves short-term consultants, participant training and construction of health centers. \$430,000 is earmarked for local construction contract costs to construct 54 health centers.
- Cape Verde - Primary and Non-Formal Education - \$700,000 Grant**
A.I.D. will continue to fund the construction of 150 schools and 16 houses in remote communities. A.I.D. funds for short-term technicians (\$50,000), construction materials (\$200,000), and contract costs (\$450,000).
- Niger - Niger Cereals Production II - \$2.5 mil. Grant**
To develop an agricultural delivery system to assist the Government of Niger achieve self-sufficiency in cereals production \$857,000 is proposed for construction of field stations.
- Niger - Rural Sector Human Resources Development - \$2.0 mil. Grant**
To accelerate the supply of trained manpower to meet minimum needs for rural development. \$1.25 mil. is proposed for construction of a Development Project Management Center.
- Niger - Niger Range and Livestock Management - \$1.13 mil. Grant**
\$228,000 is proposed for construction of Field Extension Stations. Also, studies in hydrology proposed.
- Niger - Improving Rural Health - \$2.6 mil. Grant**
\$343,000 proposed for construction of headquarters, dispensaries and village health stations.
- Senegal - Patte d'Oie Improvement - \$1.37 mil Grant**
To finance a rehabilitation program of the Patte d'Oie Housing Guaranty Project. \$80,000 is proposed for final plans and specifications and supervision contracts. \$1.28 mil. is proposed for completing the necessary repairs and rehabilitation.

- Senegal - Range and Livestock Development - \$1.0 mil. Grant
\$520,000 is proposed for construction of firebreaks,
towers, offices and roads.
- Senegal - Rural Health Services Development - \$1.0 mil. Grant
\$345,000 is proposed for constructing and refurbishing
of health posts.
- Senegal - SAED Training - \$300,000 Grant
\$110,000 is proposed for construction of training
facilities.
- Upper Volta - Agriculture and Human Resources Development -
\$2.0 mil. Grant
\$800,000 is proposed for construction of training
centers.
- Lesotho - Farming Systems Research - \$1.5 mil. Grant
\$217,000 is proposed for construction of laboratories
and a library.
- Lesotho - Produce Marketing Corporation - \$2.0 mil. Grant
\$500,000 is proposed for construction of warehouses.
- Lesotho - National University of Lesotho - \$1.0 mil. Grant
\$500,000 is proposed for construction of classrooms
and a faculty house.
- Swaziland - Rural Water Borne Disease Control - \$640,000 Grant
\$265,000 is proposed for construction of a Public
Health Laboratory.
- Swaziland - Health Manpower Training - \$1.2 mil. Grant
\$545,000 is proposed for construction of a training
facility.
- Cameroon - Medical System for Cameroon - \$2.5 mil. Grant
\$850,000 is proposed for construction of health
centers, rural hospitals and vehicle maintenance
centers.
- Cameroon - North Cameroon Livestock and Agricultural Development -
\$1.0 mil. Grant
\$200,000 is proposed for procurement of heavy construction
equipment and \$175,000 for construction of animal health
posts, storage buildings and dipping vats.
- Ethiopia - Upper Didesa Development - \$500,000 Grant
\$150,000 is proposed for construction of storage and
marketing facilities.

- Guinea - Agricultural Production and Training - \$2.5 mil. Grant
\$1.0 mil. is proposed for construction and renovation
of three training centers.
- Guinea-Bissau - Agriculture Development - \$500,000 Grant
\$219,000 is proposed for construction activities in
land reclamation and seed storage.
- Guinea-Bissau - Primary Teacher Training - \$850,000 Grant
\$610,000 is proposed for construction of a teacher
training center and three prototype primary schools.
- Kenya - Rural Health Delivery - \$7.0 mil. Loan
\$3.0 mil. is proposed for construction and renovation
of rural health facilities.
- Rwanda - Agricultural Education - \$1.6 mil. Grant
\$780,000 is proposed for construction of laboratories,
classrooms, dormitories and staff housing.
- Rwanda - Food Storage and Marketing - \$620,000 Grant
\$355,000 is proposed for construction of a warehouse
and storage facilities
- Sudan - Northern Kordofan Agricultural Development - \$2.0 mil. Grant
\$400,000 is proposed for construction of a project
headquarters and field facilities.
- Sudan - Health Services Delivery System - \$2.5 mil. Grant
\$500,000 is proposed for construction and renovation
of clinics
- Tanzania - Seed Multiplication - \$2.0 mil. Grant
\$1.0 mil. is proposed for construction and installation
of seed processing facilities.

ASIA

- Bangladesh - Family Welfare Centers - \$2.5 mil. Grant
\$1.6 mil. is proposed for construction of 500 centers.
- Indonesia - Graduate Agriculture School - \$1.0 mil. Grant, \$4.0 mil. Loan
\$2.0 mil. is proposed for construction of a library-
classroom building.
- Nepal - Integrated Health Services - \$2.1 mil. Grant
\$1.0 mil. is proposed for construction and renovation
of health clinics.

- Pakistan - Basic Health Services - \$7.5 mil. Loan**
 \$6.3 mil. is proposed for construction of rural health complexes.
- Philippines - Agricultural Research II - \$5.0 mil. Loan**
 \$2.5 mil. is proposed for local construction and upgrading of six centers.
- Sri Lanka - Paddy Storage and Processing II - \$7.0 mil. Grant,
 \$1.0 mil. Loan**
 \$2.5 mil. is proposed for construction costs of storage facilities and rice mills.
- Sri Lanka - Samanthurai Agriculture Intensification - \$2.5 mil. Loan
 \$0.5 mil. Grant**
 \$1.3 mil. is proposed for construction of warehouse, roads, water course and distribution channel rehabilitation.

LATIN AMERICA

- El Salvador - Improvement of Rural Primary Education - \$4.2 mil Loan
 \$200,000 Grant**
 \$2.8 mil. is proposed for construction of 450 new classrooms in rural areas.
- Guatemala - Earthquake Housing Reconstruction - \$160,000 Grant**
 Continuation of technical assistance for housing construction in the earthquake devastated areas.
 \$140,000 is proposed for consultants and \$20,000 for training.
- Guyana - Agriculture Sector Development - \$3.0 mil. Loan,
 \$650,000 Grant**
 \$2.0 mil. is proposed for construction of seven distribution/market collection centers, three regional collection, storage, packaging centers and three cold storage facilities.
- Guyana - Rice Stabilization - \$400,000 Grant**
 \$400,000 is proposed for engineering services to design three new regional rice paddy drying and grain storage centers.
- Haiti - Para-Professional Engineering Education - \$1.5 mil. Grant**
 \$975,000 is proposed for construction of facilities.
- Haiti - Vocational Education - \$1.0 mil. Grant**
 \$300,000 is proposed for construction and rehabilitation of schools.

- Haiti - Agricultural Development Support II - \$583,000 Grant
\$125,000 is proposed for construction at research centers.
- Haiti - Disaster Preparedness - \$150,000 Grant
\$100,000 is proposed for construction of facilities.
- Peru - Education Service Centers - \$790,000 Grant
\$105,000 is proposed for construction of Service Centers.

NEAR EAST

- Afghanistan - Rural Women's Student Residence - \$3.0 mil. Grant
\$100,000 is proposed for local A&E design and \$2.9 mil.
for construction.
- Afghanistan - Rural Primary Schools II - \$2.0 mil Grant
\$1.825 mil is proposed for construction costs.
- Afghanistan - Basic Health Services - \$780,000 Grant
Continuation of A I.D funded project \$362,000 is
proposed for reimbursement of final segment of
construction of facilities.
- Yemen - Local Resources for Development - \$1.5 mil. Grant
\$800,000 is proposed for reimbursement costs for small
projects such as health and educational facilities,
potable water, irrigation, etc
- Jordan - Technical Services and Feasibilities Studies II - \$1.5 mil. Grant
\$1.5 mil is proposed for feasibility studies for
development activities of high priority Those
being considered are a study for the construction/
rehabilitation of sewage facilities for the Zarqa
municipal area and an environmental assessment of the
Maqarin Dam and Jordan Valley Irrigation System Project.
- Jordan - Village Development II - \$7.0 mil Loan
\$5.5 mil is proposed for contracts to construct ten
schools, twelve clinics and eight community municipal
buildings
- Syria - Technical Services and Feasibility Studies - \$1.5 mil. Grant
To provide feasibility studies and advisory services
in such areas as rural electrification, rural roads,
and others in non-engineering related fields
- Egypt - Technical and Feasibility Studies IV - \$8.0 mil. Grant
The FY 1979 funding is to continue to provide sector
assessments, analytical studies and feasibility studies
for projects proposed for U.S financing

- Egypt - Technology Transfer and Manpower Development - \$2.0 mil. Grant**
A few engineering contracts are anticipated under this project which encompasses many areas of scientific, technical and managerial upgrading of public agencies, institutions and enterprises in Egypt.
- Egypt - Low Cost Housing and Community Upgrading - \$30.0 Grant**
To continue an A.I.D. funded program to design policies and plans for low cost housing and to assist the government provide improved low cost housing through upgrading existing informal settlements and constructing new communities for low income families. \$30 0 mil. is proposed for program costs which will include feasibility studies and contract advisory services

POWER/RURAL ELECTRIFICATIONASIA**Bangladesh - Rural Electrification - \$13.0 mil. Grant**

To extend rural electrification to selected areas to energize pumps for small scale irrigation, develop rural industry and provide power for community service facilities. \$9.0 mil. is proposed for procurement of equipment (poles, lines, transformers, etc.), \$3.0 mil. for construction consultants and \$1.0 mil. for service connections, technical assistance and training for Rural Electric Societies.

India - Rural Electrification - \$58.0 mil. Loan

To extend rural electrification to backward areas, primarily to energize pumps for irrigation and to develop rural industry. \$35.8 mil. is proposed for procurement of equipment (conductors, transformers, meters, insulators, poles, etc.), \$15.6 mil. for construction and \$6.6 mil. for service connections.

Indonesia - Rural Electrification I - \$3.0 mil Grant

Continuation of a previous A.I.D. funded project. \$1.5 mil. is proposed for technical advisory assistance and \$1.2 mil. for A & E services.

LATIN AMERICA**Bolivia - Rural Electrification III - \$3.5 mil. Loan**

Provide basic electrical services to rural consumers in selected geographic areas. \$3.5 mil. proposed for materials, equipment, construction, vehicles, and engineering services.

NEAR EAST**Syria - Rural Electrification II - \$30.0 mil. Loan**

To increase economic production and improve quality of life. \$4.0 mil is proposed for consulting engineering services and \$26.0 mil. for materials and equipment for a 380/220 volt low tension system

Egypt - Suez Electric Generating Plant - \$100 0 mil Grant

To provide power needed for continual industrial expansion and improvement of rural and urban living conditions in the Suez Canal area. \$100.0 mil. is proposed for equipment which will support IBRD and Arab donors contributions

to the project.

Egypt - Provincial Electrification - \$50.0 mil. Grant
To modernize the rural economy by providing electrical power to homes, farms, and local businesses. \$4.0 mil. is proposed engineering consulting services and \$46.0 mil. for equipment (electric subtransmission and distribution equipment).

INDUSTRYLATIN AMERICA

Panama - Integrated Rural Development II - \$5.0 mil. Loan
\$3.5 mil. is proposed for equipment and construction costs for small-scale agro-industries such as sawmills, cheese production and fruit packaging facilities.

Paraguay - Small Manufacturing Industry Development - \$171,000 Grant
To support the growth and efficiency of small firms, particularly in agro-industry. \$130,000 is proposed for technical advisors

NEAR EAST

Jordan - Minerals Development - \$550,000 Grant
To identify mineral resources which can be exploited on a commercial basis. \$240,000 is proposed for U.S. consultant studies, \$60,000 for advisory services, \$50,000 for commodities and \$200,000 for LANDSAT imagery work.

Jordan - Potash Production - \$33.0 mil. Loan
To construct a facility capable of producing 1.2 million tons per annum of potash from Dead Sea brine. \$33.0 mil. is proposed for U.S. equipment and construction supervisory services as part of a total \$300 mil. project.

Egypt - Edfu Pulp and Paper Mill - \$40.0 mil. Grant
Expansion of plant to provide 26,000 tons a year of additional pulping capacity and 150 tons a day of new paper production capacity \$2 5 mil. is proposed for engineering services, \$37.0 mil. for procurement of equipment and \$500,000 for training in maintenance and management.

Egypt - Grain/Tallow, Oil, Fats Storage IV - \$20.0 mil. Grant
To create an efficient grain storage system in Egypt by constructing modern food grain, tallow, vegetable oil and fats storage facilities at strategic points throughout the country \$2 0 mil is proposed for consulting engineering services and \$18 0 mil. for equipment and materials

Egypt - Private Sector Development - \$1.0 mil. Grant
To develop small and medium size private sector enterprises such as livestock processing, small farm machinery manufacturing, etc. \$640,000 is proposed for technical advisory services.

Egypt - Suez Free Zones - \$10.0 mil. Grant

To establish in the Suez City area an industrial free zone for manufacture/assembly of labor-intensive products for Middle East markets. In FY 1979, \$460,000 is proposed for technical and engineering services, \$9.0 mil. for equipment, materials, and infrastructure and \$540,000 for training, all concentrated on organizational development and basic infrastructure for site development (water/sewage and power).

**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. \$5.0 mil. is proposed as a support grant to A.T. International in FY 1979 to continue and expand its activities. Engineering contracts are possible under this project to develop appropriate technology in specific areas.

Energy

This project, begun in FY 1976, is to help developing countries identify and resolve energy problems, particularly rural energy problems \$3.6 mil. is proposed for the FY 1979 program which will include feasibility studies of appropriate energy technologies.

Reducing Public Investment Costs

This project, begun in FY 1973, is to reduce costs of economic infrastructure programs through applications of selected technology. Priority will be given to R&D to improving the quality of life of the poor majority through low income housing, rural roads, and low cost construction materials for housing. \$455,000 is proposed for FY 1979. Although the principal contractors and agencies are already on board, a new engineering contract is possible.

Reimbursable Development Programs

This project, begun in FY 1975, is to work with friendly countries to identify and design country-financed development programs \$2.8 mil. is proposed for FY 1979. The project has resulted in countries purchasing development-oriented U.S. technology. Engineering firms are involved.

Disaster Related Applied Research

This project started in FY 1976 is to provide application of the world's technology to international disaster prediction, preparedness, planning, relief and rehabilitation. \$600,000 is proposed for FY 1979. It should be of interest to engineering firms that A.I.D. plans to demonstrate the value of river flood prediction activity and the seismic building code activity as models in high risk countries. Also planned is application of seismic data to building construction codes for earthquake damage prevention. Although most of the work under this project has been awarded to universities and government agencies, it is likely that some portions of the work will go to private engineering firms.

American Schools and Hospitals Abroad (ASHA)

The objectives of the ASHA program are to insure that selected institutions overseas reflect the best in American education and medicine and those identified as American serve as effective cultural presence centers and foster a favorable image of the U.S. The FY 1979 proposed funding of \$8.0 million is to maintain ongoing activities. 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